SEQUENCE LISTING

<110> Dillon, Davin C.
Jiang, Yuqiu

<120> COMPOSITIONS AND METHODS FOR THE THERAPY AND DIAGNOSIS OF BREAST CANCER

<130> 210121.491C8

<140> US
<141> 2003-11-19

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<212> DNA
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<213> Homo sapiens

<220>
<221> misc_feature
<222> 214, 276
<223> n = A,T,C or G

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acacaatg 308

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<211> 510
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 98, 327
<223> n = A,T,C or G

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attaaaattc catttaacta aagatggtta accccaanaa attgtacagt agttgatttc 120
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gaagaataac tgcaggtatt gttccanagc tgatacgagg ttttgctttt acagcctggt 360
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caagttgggt acagtttaaa aaagaagatg 510

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<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> 196
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<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 62, 91, 105, 195, 294
<223> n = A,T,C or G

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<212> DNA
<213> Homo sapiens

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<221> misc_feature
<222> 7, 249, 258
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<211> 537
<212> DNA
<213> Homo sapiens

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<221> misc_feature
<222> 460
<223> n = A,T,C or G

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<213> Homo sapiens

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<222> 9, 467
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<211> 342
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<211> 239
<212> DNA
<213> Homo sapiens

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<211> 527
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<211> 532
<212> DNA
<213> Homo sapiens

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ttattttgtt tattgcactt tatgaaaact gaagcatcaa taaaattaga gg 532

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<212> DNA
<213> Homo sapiens

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tgcctgcatc ctgacacggt gccgtcccca gcacggtgat tagtcccaga gctcggctgc 180
cacctccacc ggacacctca gacacgcttc tgcag 215

<210> 24
<211> 215
<212> DNA
<213> Homo sapiens

<400> 24
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cccaaatttc ttcctgaact cagctctgat actcagaagg tcagtctcac atcgagagat 120
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<210> 25
<211> 530
<212> DNA
<213> Homo sapiens

<400> 25
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<212> DNA
<213> Homo sapiens

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<210> 27
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<212> DNA
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<220>
<221> misc_feature
<222> 241
<223> n = A,T,C or G

<400> 27
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acatttttcc aaggaaagga aaacggaagc agggttcttg cctggtagct ccaggaccca 240
nctctgcagg cacccaaaga ccctctgtgt ccagcctctt ccttgagttc tcggaacctc 300
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<210> 28
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<400> 28
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tgtcaggagt tcagaaggtc cctgcactcc tagaaaatca agtggaggaa aggacttgtt 120
ctgattcaga agatattgga agctctgagt gctctgacac agattctgaa gagcagggag 180
accatgcccg ccccaagaaa cacaccacgg accctgacat tgataaaaaa gaaagaaaaa 240
agatggtcaa ggaagcccag agagagaaaa gaaaaaacaa aattcctaaa catgtgaaaa 300
aaagaaagga gaagacagcc aagacgaaaa aaggcaaata gaatgagaac catattatgt 360
acagtcattt tcctcagttc cttttctcgc ctgaactctt aagctgcatc tggaagatgg 420
cttattggtt ttaaccagat tgtcatcgtg gcactgtctg tgaagacgga ttcaaatgtt 480
ttcatgtaac tatgtaaaaa gctctaagct ctagagtcta gatccagtca 530

<210> 29
<211> 571
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 412
<223> n = A,T,C or G

<400> 29
ccataatatt ctgatgatca aggagcacac atatacaaaa gttattggat tactgcaatt 60
ctcagaggca caaaacctga catggtgtga tatagtatat aatcagtcac ggggggaaa 120
agaacattaa gtctttaaaa aggcttagga agacataaac agtaaatctt tgtttttcta 180
ccttcctttg gacagtgtta tatttcactt tcttctttgc aaaatgtttc caaattcatt 240
tgctcaggat ttatttaaga taataactta aaacaactaa cagttgttta tgctatatgc 300
atatcatgca tgttctactg gttcaaggac aaaattaaaa caagatcttc tctgtaaagc 360
aaatatattt attatgcact ttcatataca cagggatttt ttgagtacca angggataaa 420
ataaaacttt tacaatgtga aattcaatgt acatttttgg ctatttacat acctcaaacc 480
aagggaaaaa taaaaagaaa gcatttgttt gcaactacat ttgctgagaa gtgtaaatgg 540
aggacattaa gcaaaacaaa tatttgcata g 571

<210> 30
<211> 917
<212> DNA
<213> Homo sapiens

<400> 30
actgccagag agtatgattt gaaggagatg ggagcagatg taattcttgg ctggaatctc 60
tcatttcaaa atcacttcac ataatggtgt catcatttaa acacttaaca gtcagtgcaa 120
ctgccactgt aacatctagt tggacaaaac cacaaggagg gggaggagaa aatgccatca 180
ctattatgtt aacaaacatt taatttaaat ggttgctgca ctagtaaatt tctgcagaaa 240
acagttttac ccgccccctt tcacagttcc aaattaatca aggatgcttt tctataatct 300
gatgcttagc aaattagctc atgattcaaa ttttgccctc ttgaagcaca tatacctttt 360
attttaaaag tccattatag agaatttgga atatataagg tatttgaatt gcagaacacc 420
cctctaattc tgttaatata gcaaagacaa aacagtatca tatacatcaa gatcatactt 480
ttaaagtaag tttaaaggtc tcaattgccc agatattaaa tttatatttt ccttctatta 540
aaaaatatta catttcaatt ttgtaatatt gtaacatatt ttaagatgac cagcaagacc 600
tagtcaattt gaaaataccc ttgcattcca tacacaagct ataccataag taataaccca 660
agtatatgat gtgtaaaagt tggtgaaggt cataatactg aatttttttg caaatgtaaa 720
ctgctttcca agtaatcagc accatttttt actagactac attttaatca cttccttagc 780
tgcttacaac ctctacttag gcataaataa aagaatctga aattggtata tttccccttc 840
ctgctgtgtt aaccaaaaat actatttgac ttaaagatca aagagtcttt ttcctgaagg 900
tttttgtttt taaatgt 917

<210> 31
<211> 367
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 124
<223> n = A,T,C or G

<400> 31
tcttttcttt ctgtatttcc caaattacag ggagctatgc ccttggtatt gcacacagta 60
cactgcaaaa gattcacaag gttagttgaa agtcattttt gccctggtga ttcaaagctc 120
aaanaatttt ctagcataaa gtcttattaa aaattttaat caaaatatta tttgagttta 180

agtttaataa aacaatacca ctatatatac tctcaacaac ttcattatat aatcagtcct 240
atgaggttgt acttgctttt catatcacac tgattaagga caaaaataat tttgatgtac 300
atgtaccata cactgatatg caatctacac actgatgcat ttacatacat acaaccccaa 360
cacaatg 367

<210> 32
<211> 847
<212> DNA
<213> Homo sapiens

<400> 32
cattgtgttg ggctggcagg atagaagcag cggctcactt ggacttttc accagggaaa 60
tcagagacaa tgatggggct cttccccaga actacagggg ctctggccat cttcgtggta 120
agtcctggat tttcctaata atcacaaact tccctgcttc ctcccttgtt aaagaatatt 180
atatttgatt gcacaatctt tattataaat tctaaaagga gtgcagtgga aatcaacact 240
ttgaaatgaa atcgtgaaga ttaccaattt ccttcttttg ttgtttttta tgttgtattt 300
tacatagaaa aataaaccag aaagaaatga gttttaaaaa ccatttagaa tttttttag 360
ttaatgaatt aagtaatctt aatcacaggt tatattttcc acaacatttt cactttcttt 420
aaagttatgc ttttactagt ttttctaacc cacaaacaag aacacaggag ccacttctat 480
tttccaagat tacatgtctc ttagcatata gctaagaact ctacacgcct gggcttgata 540
cctgacacgc ttttaaaagt aaaaaatcgc agaattaaaa tcaaagcagt gtttgactct 600
agagaagttg ggaggattat taagtaagta tttatgttta gctattatgt gccaaaagaa 660
aatgtcagcc tttggggatg gggggaaaga catacaacat tttaaagcca ttttttttcag 720
aaaagtaata cttctgttga ttgagaaagt cgtacatagt attatctaaa agagaaacgg 780
aatgttacag actgtttaaa acctggatgt tacagactaa cttactcctt aactgtgttc 840
ttatagc 847

<210> 33
<211> 863
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 321, 563, 601, 858
<223> n = A,T,C or G

<400> 33
cattgtgttg ggcttttatt tgagtttatg aacagaaata gaaagtatgg tgcttgggtt 60
ttgccctttc ttactcctga aagttaaatc agaagacact gatttcattt tgtgaaattt 120
agctcagaga ctattgatct tttgtttcat taatatgaac aactattagt aaaaaatagc 180
tttaacagca tttctgctga tatctagtaa tctattcttt taatgtgaaa ataagataaa 240
atgtcctgga gctaattcta gcttaaattt gccagtattt ctgtatgtca ttaagttttt 300
ttcctctaag gttggtaata naattttgtt aatctttgca tacctgatgg catctatgtc 360
aatgctgatt gggtaattat aaattctgtg ctaatttaaa acttaatttg cctcttaagg 420
tgattgtcct ctgagtaatg attgtagtta aatgaagtat agcttgcaac tatactatca 480
catgggtcgt taagtaaaaa taaataaacc aaatttgtct gagacaggct aagatcaatc 540
ttctcatcaa accaattttt ctntaagagc aatttcactt tcagttttag ggtggacatt 600
nttgaatgcc tcaaattaaa cgttatctat ttaatcttcc tggaatagtc tgtgaccaaa 660
aaggagggtg tgatatattt aggtgtaaat atatcacata tatggtgtga tatatttggg 720
atttatatat tcagctcatt ctctgtgaag aagtcttcct gactaaaatt ggtttcaaga 780
taaactaatt tctgttagta tttctactct gcctaccatg tatgcctttt tgttagaaac 840
taataaatgt atcagtcnct agc 863

<210> 34
<211> 432
<212> DNA
<213> Homo sapiens

<400> 34
agtgcatttc ctcttgattt gtctgggtta aaaccattcc ttttgtatga aatgttttga 60
cttaggaatc attttatgta cttgttctac ctggattgtc aacaactgaa agtacatatt 120
tcatccaaat caagctaaaa tgtatttaag ttgattctga gagtacaggt cagtaagcct 180
cattatttgg aatttgagag aaggtatagg tgatcggatc tgtttcattt ataaaaggtc 240
cagtttttag gactagtaca ttcctgttat tttctgggtt ttatcatttt gcctaaaata 300
ggatataaaa gggacaaaaa ataagtagac tgtttttatg tgtgaattat atttctacta 360
aatgtttttg tatgactgtg ttatacttga taatatatat atatatatat atatatatca 420
acttgttaaa tt 432

<210> 35
<211> 350
<212> DNA
<213> Homo sapiens

<400> 35
ccagaggggt gtttatctta gggttggaat gtttctgatt atgctgacaa tagccattag 60
gctgatgttt tggggctgga tttaggcagt ttttaaataa aagagaactt aaaatggtgg 120
tgtttgtcca agatggtgat gttcctgctg tcaattagca taaacaaaag agaattctga 180
taccctgttg gaatgtcctc attcctctga gcttctccac tcacaggata aatgcaggag 240
tggcttcccc tcatggacac ctgcaaatgc agagtgtggg ggctctcctg gccctgcatc 300
actagcaaga gcaaaagctg ctccgagtct tgtttttaga acctggtcga 350

<210> 36
<211> 1082
<212> DNA
<213> Homo sapiens

<400> 36
atgaactaca gcctccactt ggccttcgtg tgtctgagtc tcttcactga gaggatgtgc 60
atccagggga gtcagttcaa cgtcgaggtc ggcagaagtg acaagctttc cctgcctggc 120
tttgagaacc tcacagcagg atataacaaa tttctcaggc ccaattttgg tggagaaccc 180
gtacagatag cgctgactct ggacattgca agtatctcta gcatttcaga gagtaacatg 240
gactacacag ccaccatata cctccgacag cgctggatgg accagcggct ggtgtttgaa 300
ggcaacaaga gcttcactct ggatgcccgc ctcgtggagt tcctctgggt gccagatact 360
tacattgtgg agtccaagaa gtccttcctc catgaagtca ctgtgggaaa caggctcatc 420
cgcctcttct ccaatggcac ggtcctgtat gccctcagaa tcacgacaac tgttgcatgt 480
aacatggatc tgtctaaata ccccatggac acacagacat gcaagttgca gctggaaagc 540
tggggctatg atggaaatga tgtggagttc acctggctga gagggaacga ctctgtgcgt 600
ggactggaac acctgcggct tgctcagtac accatagagc ggtatttcac cttagtcacc 660
agatcgcagc aggagacagg aaattacact agattggtct tacagtttga gcttcggagg 720
aatgttctgt atttcatttt ggatctctct cgattcagtc cctgcaagaa cctgcattgg 780
ggacaacaaa ggaagtagaa gaagtcagta ttactaatat catcaacagc tccatctcca 840
gctttaaacg gaagatcagc tttgccagca ttgaaatttc cagcgacaac gttgactaca 900
gtgacttgac aatgaaaacc agcgacaagt taaagtttgt cttccgagaa aagatgggca 960
ggattgttga ttatttcaca attcaaaacc ccagtaatgt tgatcactat tccaaactac 1020
tgtttccttt gatttttatg ctagccaatg tattttactg ggcatactac atgtattttt 1080
ga 1082

<210> 37
<211> 1135
<212> DNA
<213> Homo sapiens

<400> 37
atgaactaca gcctccactt ggccttcgtg tgtctgagtc tcttcactga gaggatgtgc 60
atccagggga gtcagttcaa cgtcgaggtc ggcagaagtg acaagctttc cctgcctggc 120
tttgagaacc tcacagcagg atataacaaa tttctcaggc ccaattttgg tggagaaccc 180
gtacagatag cgctgactct ggacattgca agtatctcta gcatttcaga gagtaacatg 240
gactacacag ccaccatata cctccgacag cgctggatgg accagcggct ggtgtttgaa 300
ggcaacaaga gcttcactct ggatgcccgc ctcgtggagt tcctctgggt gccagatact 360
tacattgtgg agtccaagaa gtccttcctc catgaagtca ctgtgggaaa caggctcatc 420
cgcctcttct ccaatggcac ggtcctgtat gccctcagaa tcacgacaac tgttgcatgt 480
aacatggatc tgtctaaata ccccatggac acacagacat gcaagttgca gctggaaagc 540
tggggctatg atggaaatga tgtggagttc acctggctga gagggaacga ctctgtgcgt 600
ggactggaac acctgcggct tgctcagtac accatagagc ggtatttcac cttagtcacc 660
agatcgcagc aggagacagg aaattacact agattggtct tacagtttga gcttcggagg 720
aatgttctgt atttcatttt ggaaacctac gttccttcca ctttcctggt ggtgttgtcc 780
tgggtttcat tttggatctc tctcgattca gtccctgcaa gaacccgcat tggggacaac 840
aaaggaagta gaagaagtca gtattactaa tatcatcaac agctccatct ccagctttaa 900
acggaagatc agctttgcca gcattgaaat ttccagcgac aacgttgact acagtgactt 960
gacaatgaaa accagcgaca agttaaagtt tgtcttccga gaaaagatgg gcaggattgt 1020
tgattatttc acaattcaaa accccagtaa tgttgatcac tattccaaac tactgtttcc 1080
tttgattttt atgctagcca atgtatttta ctgggcatcc tacatgtatt tttga 1135

<210> 38
<211> 1323
<212> DNA
<213> Homo sapiens

<400> 38
atgaactaca gcctccactt ggccttcgtg tgtctgagtc tcttcactga gaggatgtgc 60
atccagggga gtcagttcaa cgtcgaggtc ggcagaagtg acaagctttc cctgcctggc 120
tttgagaacc tcacagcagg atataacaaa tttctcaggc ccaattttgg tggagaaccc 180
gtacagatag cgctgactct ggacattgca agtatctcta gcatttcaga gagtaacatg 240
gactacacag ccaccatata cctccgacag cgctggatgg accagcggct ggtgtttgaa 300
ggcaacaaga gcttcactct ggatgcccgc ctcgtggagt tcctctgggt gccagatact 360
tacattgtgg agtccaagaa gtccttcctc catgaagtca ctgtgggaaa caggctcatc 420
cgcctcttct ccaatggcac ggtcctgtat gccctcagaa tcacgacaac tgttgcatgt 480
aacatggatc tgtctaaata ccccatggac acacagacat gcaagttgca gctggaaagc 540
tggggctatg atggaaatga tgtggagttc acctggctga gagggaacga ctctgtgcgt 600
ggactggaac acctgcggct tgctcagtac accatagagc ggtatttcac cttagtcacc 660
agatcgcagc aggagacagg aaattacact agattggtct tacagtttga gcttcggagg 720
aatgttctgt atttcatttt ggaaacctac gttccttcca ctttcctggt ggtgttgtcc 780
tgggtttcat tttggatctc tctcgattca gtccctgcaa gaacctgcat tggagtgacg 840
accgtgttat caatgaccac actgatgatc gggtcccgca cttctcttcc caacaccaac 900
tgcttcatca aggccatcga tgtgtacctg gggatctgct ttagctttgt gtttggggcc 960
ttgctagaat atgcagttgc tcactacagt tccttacagc agatggcagc caaagatagg 1020
gggacaacaa aggaagtaga agaagtcagt attactaata tcatcaacag ctccatctcc 1080
agctttaaac ggaagatcag ctttgccagc attgaaattt ccagcgacaa cgttgactac 1140
agtgacttga caatgaaaac cagcgacaag ttcaagtttg tcttccgaga aaagatgggc 1200
aggattgttg attatttcac aattcaaaac cccagtaatg ttgatcacta ttccaaacta 1260
ctgtttcctt tgatttttat gctagccaat gtattttact gggcatacta catgtatttt 1320

tga 1323

<210> 39
<211> 440
<212> PRT
<213> Homo sapiens

<400> 39

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Met Asn Tyr Ser Leu His Leu Ala Phe Val Cys Leu Ser Leu Phe Thr
 1               5                  10                  15
Glu Arg Met Cys Ile Gln Gly Ser Gln Phe Asn Val Glu Val Gly Arg
            20                  25                  30
Ser Asp Lys Leu Ser Leu Pro Gly Phe Glu Asn Leu Thr Ala Gly Tyr
        35                  40                  45
Asn Lys Phe Leu Arg Pro Asn Phe Gly Gly Glu Pro Val Gln Ile Ala
    50                  55                  60
Leu Thr Leu Asp Ile Ala Ser Ile Ser Ser Ile Ser Glu Ser Asn Met
65                  70                  75                  80
Asp Tyr Thr Ala Thr Ile Tyr Leu Arg Gln Arg Trp Met Asp Gln Arg
                85                  90                  95
Leu Val Phe Glu Gly Asn Lys Ser Phe Thr Leu Asp Ala Arg Leu Val
            100                 105                 110
Glu Phe Leu Trp Val Pro Asp Thr Tyr Ile Val Glu Ser Lys Lys Ser
        115                 120                 125
Phe Leu His Glu Val Thr Val Gly Asn Arg Leu Ile Arg Leu Phe Ser
    130                 135                 140
Asn Gly Thr Val Leu Tyr Ala Leu Arg Ile Thr Thr Thr Val Ala Cys
145                 150                 155                 160
Asn Met Asp Leu Ser Lys Tyr Pro Met Asp Thr Gln Thr Cys Lys Leu
                165                 170                 175
Gln Leu Glu Ser Trp Gly Tyr Asp Gly Asn Asp Val Glu Phe Thr Trp
            180                 185                 190
Leu Arg Gly Asn Asp Ser Val Arg Gly Leu Glu His Leu Arg Leu Ala
        195                 200                 205
Gln Tyr Thr Ile Glu Arg Tyr Phe Thr Leu Val Thr Arg Ser Gln Gln
    210                 215                 220
Glu Thr Gly Asn Tyr Thr Arg Leu Val Leu Gln Phe Glu Leu Arg Arg
225                 230                 235                 240
Asn Val Leu Tyr Phe Ile Leu Glu Thr Tyr Val Pro Ser Thr Phe Leu
                245                 250                 255
Val Val Leu Ser Trp Val Ser Phe Trp Ile Ser Leu Asp Ser Val Pro
            260                 265                 270
Ala Arg Thr Cys Ile Gly Val Thr Thr Val Leu Ser Met Thr Thr Leu
        275                 280                 285
Met Ile Gly Ser Arg Thr Ser Leu Pro Asn Thr Asn Cys Phe Ile Lys
    290                 295                 300
Ala Ile Asp Val Tyr Leu Gly Ile Cys Phe Ser Phe Val Phe Gly Ala
305                 310                 315                 320
Leu Leu Glu Tyr Ala Val Ala His Tyr Ser Ser Leu Gln Gln Met Ala
                325                 330                 335
Ala Lys Asp Arg Gly Thr Thr Lys Glu Val Glu Glu Val Ser Ile Thr
            340                 345                 350
Asn Ile Ile Asn Ser Ser Ile Ser Ser Phe Lys Arg Lys Ile Ser Phe
        355                 360                 365
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Ala Ser Ile Glu Ile Ser Ser Asp Asn Val Asp Tyr Ser Asp Leu Thr
    370                 375                 380
Met Lys Thr Ser Asp Lys Phe Lys Phe Val Phe Arg Glu Lys Met Gly
385                 390                 395                 400
Arg Ile Val Asp Tyr Phe Thr Ile Gln Asn Pro Ser Asn Val Asp His
                405                 410                 415
Tyr Ser Lys Leu Leu Phe Pro Leu Ile Phe Met Leu Ala Asn Val Phe
            420                 425                 430
Tyr Trp Ala Tyr Tyr Met Tyr Phe
        435                 440
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<210> 40
<211> 289
<212> PRT
<213> Homo sapiens

<400> 40

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Met Asn Tyr Ser Leu His Leu Ala Phe Val Cys Leu Ser Leu Phe Thr
 1               5                  10                  15
Glu Arg Met Cys Ile Gln Gly Ser Gln Phe Asn Val Glu Val Gly Arg
            20                  25                  30
Ser Asp Lys Leu Ser Leu Pro Gly Phe Glu Asn Leu Thr Ala Gly Tyr
        35                  40                  45
Asn Lys Phe Leu Arg Pro Asn Phe Gly Gly Glu Pro Val Gln Ile Ala
    50                  55                  60
Leu Thr Leu Asp Ile Ala Ser Ile Ser Ser Ile Ser Glu Ser Asn Met
65                  70                  75                  80
Asp Tyr Thr Ala Thr Ile Tyr Leu Arg Gln Arg Trp Met Asp Gln Arg
                85                  90                  95
Leu Val Phe Glu Gly Asn Lys Ser Phe Thr Leu Asp Ala Arg Leu Val
            100                 105                 110
Glu Phe Leu Trp Val Pro Asp Thr Tyr Ile Val Glu Ser Lys Lys Ser
        115                 120                 125
Phe Leu His Glu Val Thr Val Gly Asn Arg Leu Ile Arg Leu Phe Ser
    130                 135                 140
Asn Gly Thr Val Leu Tyr Ala Leu Arg Ile Thr Thr Thr Val Ala Cys
145                 150                 155                 160
Asn Met Asp Leu Ser Lys Tyr Pro Met Asp Thr Gln Thr Cys Lys Leu
                165                 170                 175
Gln Leu Glu Ser Trp Gly Tyr Asp Gly Asn Asp Val Glu Phe Thr Trp
            180                 185                 190
Leu Arg Gly Asn Asp Ser Val Arg Gly Leu Glu His Leu Arg Leu Ala
        195                 200                 205
Gln Tyr Thr Ile Glu Arg Tyr Phe Thr Leu Val Thr Arg Ser Gln Gln
    210                 215                 220
Glu Thr Gly Asn Tyr Thr Arg Leu Val Leu Gln Phe Glu Leu Arg Arg
225                 230                 235                 240
Asn Val Leu Tyr Phe Ile Leu Glu Thr Tyr Val Pro Ser Thr Phe Leu
                245                 250                 255
Val Val Leu Ser Trp Val Ser Phe Trp Ile Ser Leu Asp Ser Val Pro
            260                 265                 270
Ala Arg Thr Arg Ile Gly Asp Asn Lys Gly Ser Arg Arg Ser Gln Tyr
        275                 280                 285
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Tyr

<210> 41
<211> 265
<212> PRT
<213> Homo sapiens

<400> 41

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Met Asn Tyr Ser Leu His Leu Ala Phe Val Cys Leu Ser Leu Phe Thr
 1               5                  10                  15
Glu Arg Met Cys Ile Gln Gly Ser Gln Phe Asn Val Glu Val Gly Arg
            20                  25                  30
Ser Asp Lys Leu Ser Leu Pro Gly Phe Glu Asn Leu Thr Ala Gly Tyr
        35                  40                  45
Asn Lys Phe Leu Arg Pro Asn Phe Gly Gly Glu Pro Val Gln Ile Ala
    50                  55                  60
Leu Thr Leu Asp Ile Ala Ser Ile Ser Ser Ile Ser Glu Ser Asn Met
65                  70                  75                  80
Asp Tyr Thr Ala Thr Ile Tyr Leu Arg Gln Arg Trp Met Asp Gln Arg
                85                  90                  95
Leu Val Phe Glu Gly Asn Lys Ser Phe Thr Leu Asp Ala Arg Leu Val
            100                 105                 110
Glu Phe Leu Trp Val Pro Asp Thr Tyr Ile Val Glu Ser Lys Lys Ser
        115                 120                 125
Phe Leu His Glu Val Thr Val Gly Asn Arg Leu Ile Arg Leu Phe Ser
    130                 135                 140
Asn Gly Thr Val Leu Tyr Ala Leu Arg Ile Thr Thr Thr Val Ala Cys
145                 150                 155                 160
Asn Met Asp Leu Ser Lys Tyr Pro Met Asp Thr Gln Thr Cys Lys Leu
                165                 170                 175
Gln Leu Glu Ser Trp Gly Tyr Asp Gly Asn Asp Val Glu Phe Thr Trp
            180                 185                 190
Leu Arg Gly Asn Asp Ser Val Arg Gly Leu Glu His Leu Arg Leu Ala
        195                 200                 205
Gln Tyr Thr Ile Glu Arg Tyr Phe Thr Leu Val Thr Arg Ser Gln Gln
    210                 215                 220
Glu Thr Gly Asn Tyr Thr Arg Leu Val Leu Gln Phe Glu Leu Arg Arg
225                 230                 235                 240
Asn Val Leu Tyr Phe Ile Leu Asp Leu Ser Arg Phe Ser Pro Cys Lys
                245                 250                 255
Asn Leu His Trp Gly Gln Gln Arg Lys
            260                 265
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<210> 42
<211> 574
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 8

<223> n = A,T,C or G

<400> 42
accaacanag cttagtaatt tctaaaaaga aaaaatgatc tttttccgac ttctaaacaa 60
gtgactatac tagcataaat cattcttcta gtaaaacagc taaggtatag acattctaat 120
aatttgggaa aacctatgat tacaagtaaa aactcagaaa tgcaaagatg ttggtttttt 180
gtttctcagt ctgctttagc ttttaactct ggaaacgcat gcacactgaa ctctgctcag 240
tgctaaacag tcaccagcag gttcctcagg gtttcagccc taaaatgtaa aacctggata 300
atcagtgtat gttgcaccag aatcagcatt tttttttaa ctgcaaaaaa tgatggtctc 360
atctctgaat ttatatttct cattcttttg aacatactat agctaatata ttttatgttg 420
ctaaattgct tctatctagc atgttaaaca aagataatat actttcgatg aaagtaaatt 480
ataggaaaaa aattaactgt tttaaaaaga acttgattat gttttatgat ttcaggcaag 540
tattcatttt taacttgcta cctacttta aata 574

<210> 43
<211> 467
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 242, 263
<223> n = A,T,C or G

<400> 43
ttttttttt ttttttattg ccatcaattt attaaaataa acatgtatag caggtttcaa 60
caattgtctt gtagtttgta gtaaaaagac ataagaaaga gaaggtgtgg tttgcagcaa 120
tccgtagctg gtttctcacc ataccctgca gttctgtgag ccaaaggtct tgcagaaagt 180
taaaataaat cacaaagact gctgtcatat attaattgca taaacacctc aacattgctc 240
anagtttcat ccgtttggtt aanaaaacat tccttcaatt catctatggc atttgtagtg 300
gcattgtcgt ctatgaactc ttgaagaagt tctttgtatt cagtcttaga cacttgtgga 360
ttgattgtct tggaaatcac attctccaat aaggggcagc cagagcctgc gtagcagtgc 420
tgggagaggg ccgccagcat gaggaccatc agcaacttca tggtgag 467

<210> 44
<211> 613
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 494, 556
<223> n = A,T,C or G

<400> 44
ttttttttt ttttttttag ttttaaaata ttttcacttt attattatgc ttataatatt 60
attccaacag actgtattaa aggcagtgat cactaacaca gaacacgaca gggcgaagag 120
gcagccgggc cgattgcagg acgtggcctg tcgggccagg gtcgctgaca tgcacgctgg 180
tagctcatac actgctaccc tcagcacagg ctgcaggaat agggacaaga cagatgccgc 240
cggactctta gaagctattt aataaatatc atccaaaaac aaaatggaaa agaaacaaga 300
aaccctccga gcacaaccac cttaggccaa ctgaatgtaa tctagtttat tcaaccaaaa 360
attgagagag aaggaaaata ttgaaacaaa caaacgaaag aaagcagttc ttaagactag 420
cagtaaataa atttatacaa cagttcggtc tgtataatat gatgaaataa atctacatct 480
tttcttattt tggngctttg aattatacat acaaacaaca attacaggga cttgttcaca 540

aagcatgtag gcctanaaaa aggctctctg aaaccctcaa tggcaactgg tgaacggtaa 600
cactgattgc cca 613

<210> 45
<211> 334
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 309
<223> n = A,T,C or G

<400> 45
accagaccaa gtgaatgcga cagggaatta tttcctgtgt tgataattca tgaagtagaa 60
cagtataatc aaaatcaatt gtatcatcat tagttttcca ctgcctcaca ctagtgagct 120
gtgccaagta gtagtgtgac acctgtgttg tcatttccca catcacgtaa gagcttccaa 180
ggaaagccaa atcccagatg agtctcagag agggatcaat atgtccatga ttatcaggta 240
tgctgactat ttccaagggg tttttcagtt gcttcatttg cttgtaaagc aggtaatcct 300
cttgttgtnt tttctttttc tcgatgagcc gtgt 334

<210> 46
<211> 429
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 9, 392
<223> n = A,T,C or G

<400> 46
acaattttnt taaacaagca gaatagcact aggcagaata aaaaattgca cagacgtatg 60
caattttcca agatagcatt ctttaaattc agtattcagc ttccaaagat tggttgccca 120
taatagactt aaacatataa tgatggctaa aaaaaataag tatacgaaaa tgtaaaaaag 180
gaaatgtaag tccactctca atctcataaa aggtgagagt aaggatgcta aagcaaaata 240
aatgtaggtt ctttttttct atttccgttt atcatgcagt ctgcttcttt gatatgcctt 300
agggttaccc atttaagtta gaggttgtaa tgcaatggtg ggaatgaaaa ttgatcaaat 360
atacaccttg tcatttcatt tcaaattgcg gntggaaact tccaaaaaaa gggtaggcat 420
gaagaaaaa 429

<210> 47
<211> 394
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 8, 42
<223> n = A,T,C or G

<400> 47
acgcgaantt gtgttatgac tgatagcctt cagctacaaa angataggac tgacctggtt 60
taaagtgttc tattttgtaa atcattccat ttgagtcttt ctgatgaact tggctatact 120

gaaatctgtt attttagtga ggctccaaaa tgagcaaagc taggcctgat tagagtagag 180
tgactattaa aaaacataac tttctaggag ctataaatca aagttttaaa aagatgtttg 240
gatatatttg agtattccga tcatgaaaac agaaattgcc ctgcctacta caaggacaga 300
ctgatgggaa attatgcacc tggtcaactt agcttttaag cagacgatgc tgtaaaaaca 360
aacggcttct ctgatattta ttgtaagttt tagt 394

<210> 48
<211> 486
<212> DNA
<213> Homo sapiens

<400> 48
acaaaggaac cgaggggtga ccacctctga gatgtccttg actttgtcat agcctggggc 60
atattgagca tctctctcac agctgccttt cttatcccca ttcttgatgt agacctcctt 120
ccgagtcagc tttttctcct cctcagacac aaacagagct ttgatatcct gtgcagggag 180
cagctcttcc ttttgttgct ggcaagtggt agttggagga agcctcaaag ctcgagttgt 240
tccctcggtg caggggagac aaatgggcct gatagtctgg ccatatttca gcttattctt 300
gagcttgatc agggcaacgt catagtcata aaattcagga attcctgctt ctttttccc 360
attaatgttg tagttggggt gaaataggac tacttctatc tccaggtccc gcttctcccc 420
tcccttgatt gagtgttcct tgtcatccac agtgaaacaa tgtgctgctg tcagcacaaa 480
gtacct 486

<210> 49
<211> 487
<212> DNA
<213> Homo sapiens

<400> 49
acgggctgac agagaagatt cccgagagta aatcatcttt ccaatccaga ggaacaagca 60
tgtctctctg ccaagatcca tctaaactgg agtgatgtta gcagacccag cttagagttc 120
ttctttcttt cttaagccct ttgctctgga ggaagttctc cagcttcagc tcaactcaca 180
gcttctccaa gcatcaccct gggagtttcc tgagggtttt ctcataaatg agggctgcac 240
attgcctgtt ctgcttcgaa gtattcaata ccgctcagta ttttaaatga agtgattcta 300
agatttggtt tgggatcaat aggaaagcat atgcagccaa ccaagatgca aatgttttga 360
aatgatatga ccaaaatttt aagtaggaaa gtcacccaaa cacttctgct ttcacttaag 420
tgtctggccc gcaatactgt aggaacaagc atgatcttgt tactgtgata ttttaaatat 480
ccacagt 487

<210> 50
<211> 460
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 415, 459
<223> n = A,T,C or G

<400> 50
acatattttg gttgaagaca ccagactgaa gtaaacagct gtgcatccaa tttattatag 60
ttttgtaagt aacaatatgt aatcaaactt ctaggtgact tgagagtgga acctcctata 120
tcattattta gcaccgttta tgacagtaac catttcagtg tattgtttat tataccactt 180
atatcaactt atttttcacc aggttaaaat tttaatttct acaaaataac attctgaatc 240
aagcacactg tatgttcagt aggttgaact atgaacactg tcatcaatgt tcagttcaaa 300

agcctgaaag tttagatcta gaagctggta aaaatgacaa tatcaatcac attaggggaa 360
ccattgttgt cttcacttaa tccatttagc actattgaaa ataagcacac caagntatat 420
gactaatata acttgaaaat tttttatact gaggggggtng 460

<210> 51
<211> 529
<212> DNA
<213> Homo sapiens

<400> 51
acacttgaaa ccaaatttct aaaacttgtt tttcttaaaa aatagttgtt gtaacattaa 60
accataacct aatcagtgtg ttcactatgc ttccacacta gccagtcttc tcacacttct 120
tctggtttca agtctcaagg cctgacagac agaagggctt ggagattttt tttctttaca 180
attcagtctt cagcaacttg agagctttct tcatgttgtc aagcaacaga gctgtatctg 240
caggttcgta agcatagaga cggtttgaat atcttccagt gatatcggct ctaactgtca 300
gagatgggtc aacaaacata atcctgggga catactggcc atcaggagaa aggtgtttgt 360
cagttgtttc ataaaccaga ttgaggagga caaactgctc tgccaatttc tggatttctt 420
tattttcagc aaacactttc tttaaagctt gactgtgtgg gcactcatcc aagtgatgaa 480
taaatcatca agggtttgtt gcttgtcttg gatttatata gagcttctt 529

<210> 52
<211> 379
<212> DNA
<213> Homo sapiens

<400> 52
actttgccaa gcagtaaagg atccaggaga tagcactgga tgtggtgtca tgtcctgcaa 60
acatgaacgt tttcacttca gcctggagat ctgcttcaga gaaatctttg gtgttttcgc 120
ttttggcact caaaagtatg tccagaaaat cccagcgcct tttctgagta gtatcttgtt 180
ttagcttatc cttaagagac tccttccggt cctggattac tttctctgtg aactgatgaa 240
gttcttggtt aaatttagaa aagatttggc cttgagagct gaatttgaaa accaggtcgt 300
tgtgatgtag aaaattgttc atgcgctggt tggagatttt gctaaggttg aacactgctt 360
tcaggtatga gtccagggt 379

<210> 53
<211> 380
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 260, 284, 285, 372, 377
<223> n = A,T,C or G

<400> 53
acttttatct taaaagggtg gtagttttcc ctaaaatact tattatgtaa gggtcattag 60
acaaatgtct tgaagtagac atggaattta tgaatggttc tttatcattt ctcttccccc 120
tttttggcat cctggcttgc ctccagtttt aggtccttta gtttgcttct gtaagcaacg 180
ggaacacctg ctgaggggggc tctttccctc atgtatactt caagtaagat caagaatctt 240
ttgtgaaatt atagaaattn actatgtaaa tgcttgatgg aatnntttcc tgctagtgta 300
gcttctgaaa ggcgctttct ccatttattt aaaactaccc atgcaattaa aaggtacctt 360
gccgcgacca cnctaanggc 380

<210> 54

<211> 245
<212> DNA
<213> Homo sapiens

<400> 54
gcgcggcgct tcacttcttc aacttccggt ccggctcgcc cagcgcgctg cgagtgctgg 60
ccgaggtgca ggagggccgc gcgtggatta atccaaaaga gggatgtaaa gttcacgtgg 120
tcttcagcac agagcgctac aacccagagt ctttacttca ggaaggtgag ggacgtttgg 180
ggaaatgttc tgctcgagtg tttttcaaga atcagaaacc cagaccaacc atcaatgtaa 240
cttgt 245

<210> 55
<211> 556
<212> DNA
<213> Homo sapiens

<400> 55
acagaagatg aataataatg aaaaactgtg atttttttgac tatcacatac attgtgttaa 60
aaaacaggta aatataatga ctattactgt taagaaagac aaggaggaaa actgtttcaa 120
tgttcaggtt taaatactaa gcacaaaaat ataacaaatt ctgtgtctac aataattttt 180
gaagtgtata caagtgcatt gcaaatgagc tctttaaaat ttaaagtcca tttccccttt 240
agccaagcat atgtctacat ttatgatttc tttctcttat tttaaagtct cttctggttt 300
agtttttttaa aaagtttcat catggctgtc atcttggaat ctagcctcca gctcaaagct 360
gagacttcac gcatacatat tctcctttct ggttgcatct tcacctagtt tctccaagta 420
ttcagagtta aatagcacaa cttcttttat atgttcactt ttgtccacat gtagtggcag 480
tgctgctgct tcagtaggct ttctcacaca ccctttttcct tctttcaaca gcagtcacca 540
aacgttcaca acacaa 556

<210> 56
<211> 166
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 36, 37, 58, 113, 118, 131, 133, 162
<223> n = A,T,C or G

<400> 56
atgggccctg attacatcat tatgaactac tcaggnnaac atcccaaata ccgacctngg 60
gaaagacttg gtccgagatg tgttcatcca tacaggctac ctcttccaga gcncaggncc 120
caagagctgc ntnatcacct acctggccca ggtggacccc anaggg 166

<210> 57
<211> 475
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 7, 452
<223> n = A,T,C or G

<400> 57

acatccncat gttcctccaa atgacgtttg gggtcctgct tgccaacatt ctttattgcc 60
agctgttcag gtgtcatctt atcttcttct tctacagcct tattgtaatt cttggctaat 120
tccaacatct cttttaccac tgattcattg cgtttacaat gttcactgta gtcctgaagt 180
gtcaaacctt ccatccaact cttcttatgc aaatttagca acatcttctg ttccagttca 240
tttttccgat agttaatagt aatggagtaa taatgtctgt ttagtccatg aattaatgcc 300
tggatagatg gcttgtttaa gtgacccaga ttcgaagttg tttgtcttgg ttcatgtcct 360
aagaccatca tattagcatt gatcaatctg aaggcatcaa taacaacctt tccttttaca 420
ctctgaatgg gatccacaac cactgccaca gntctctccg ataaggcttc aaagc 475

<210> 58
<211> 520
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 7, 397
<223> n = A,T,C or G

<400> 58
actgttnatg tgctacttgc atttgtccct cttcctgtgc actaaagacc ccactcactt 60
ccctagtgtt cagcagtgga tgacctctag tcaagacctt tgcactagga tagttaatgt 120
gaaccatggc aactgatcac aacaatgtct ttcagatcag atccatttta tcctccttgt 180
tttacagcaa gggatattaa ttacctatgt tacctttccc tgggactatg aatgtgcaaa 240
attccaatgt tcatggtctc tccctttaaa cctatattct acccctttta cattatagaa 300
aggaatgctg gaaacccaga gtccttctct tgggactctt aatgtgtatt tctaattatc 360
catgactctt aatgtgcata ttttcaattg cctaatngat ttcaattgtc taagacattt 420
caaatgtcta attggggaga actgagtctt ttatatcaag ctaatatcta gcttttatat 480
caagctaata tcttgacttc tcagcatcat agaagggggt 520

<210> 59
<211> 214
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 34, 120, 153, 159, 171, 179, 184, 194, 197
<223> n = A,T,C or G

<400> 59
ctggcaggaa atgcatcaaa agacttaaag gtanagcgta ttacccctcg tcacttgcaa 60
cttgctattc gtggagatga agaattggat tctctcatca aggctacaat tgctggtggn 120
ggtgtcattc cacacatcca caaatctctg atngggaana aaggacaaca naagactgnc 180
taanggatgc ctgnatncct tggaatctca tgac 214

<210> 60
<211> 360
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 33

<223> n = A,T,C or G

<400> 60
gcatacaaca tggcagcagg gcctcgggaa gangggtagg aggaccgagc agcattctct 60
gtagaggaag acaggaaagg agaccctctt ggcacacatt tatggagggt tgtccctgaa 120
gagaagggca ggtgggagag gttccctgtt acttaagaga aggcaccagt ggcaaagagc 180
acaatgaaga ggatgatgat aaaaacaatc acgcagataa ggacaatcat cttcacgttc 240
ttccaccaga attttcgagc caccttctgc gatgtcgtct tgaagtgctc agatgtggct 300
tccagatcct ctgtcttgtt gcggagatgt tccaagtttt ccccccgggc caggatccgc 360

<210> 61
<211> 391
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 2, 56, 60, 92, 135, 176, 264, 308, 323, 345, 377, 378
<223> n = A,T,C or G

<400> 61
tntgggatcg tactcgatta aacagagcca cctttgttcc tgaggcaatg cataantcan 60
catttttcaa tgactgcttc tttttggaag gnttggagat gacttttatc cgcttgctga 120
ggaacacacc aatgncatca ctgttgccat agaacatctt tacagacaac atgaantgct 180
ttcgcttgtc tgagtcagat atatacaatg ttttggctgt gcaatagttc tttccttcca 240
agtttagctg ctgcatttct tggncactat ttcctatccc aataaatgca cacggttgag 300
actcttgntc agaacaacca tcncgttcca tttgttcttt ttttntcttc catccactgc 360
ccataagata tacacannga ggtgggcaaa a 391

<210> 62
<211> 324
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 223, 291, 302, 304, 316, 317
<223> n = A,T,C or G

<400> 62
acaattttat tttaacagat ttcaagagtc catttttaa aaaatgagca ataaagaacc 60
tctatcagtg agacttctca ttttatagca aatacatttt tgcagcttaa attttcttga 120
attcatatac gcttctgtca tttaaacaaa cttccagaga aaactggtct ctatatattt 180
aagtaacaaa tttgacaaaa tacatattta tacatatata ganctctaat ataaatatta 240
aatttgaaaa aatcaaatgt gaagcagaaa ctgctataca agtatattgt ntaatatcta 300
tntnatacat taaagnnttc cggg 324

<210> 63
<211> 360
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> 6, 7
<223> n = A,T,C or G

<400> 63
acagannnct tgaatatgtt gtggttccct cattatggcc cttcattccc ttctgtgtta 60
atagtaaagc atgttgccta ataactacaa ccctgaccaa atttgggcct ggatctcatg 120
ggtcacgtgg agttttaaat acgattttta atttacttgg gtaattgagc tgaatcttta 180
gttttcagat tacttttta aacagatagg ctcttagaac aaattattaa aaacataata 240
ccccattgga ggggaatctg gattaactac ccactgttcc cacccccccc aacttttgaa 300
aaattttggc catatagaat gcatgaaaaa tcaggtatga tcttatgagg actttatagt 360

<210> 64
<211> 491
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1, 403, 443, 464
<223> n = A,T,C or G

<400> 64
nctgactgtg atgtccactt gttccctgat ttttacacat catgtcaaag ataacagctg 60
ttcccaccca ccagttcctc taagcacata ctctgctttt ctgtcaacat cccattttgg 120
ggaaaggaaa agtcatattt attcccgcac cccagttttt taacttgttc tcccagttgt 180
ccccctcttc tctgggtgta agaagggaaa ttggaaaaaa attatatata tattctcctt 240
ttaatggtgg ggggctactg gagaggagag acagcaagtc caccctaact tgttacacag 300
cacataccac aggttctgga attctcatct tcgaacctag agaaataggt gctataaaca 360
gggaattaag caaaatgctg gatgctatag atcttttaat tgncttaatt ttttttctat 420
tattaaacta caggctgtag atntcttagg tctcacagaa cttntatcat tttaaactga 480
cttgtatatt t 491

<210> 65
<211> 484
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 319
<223> n = A,T,C or G

<400> 65
accagcacac cggcgccgtc ctggactgcg ccttctacga tccaacgcat gcctggagtg 60
gaggactaga tcatcaattg aaaatgcatg atttgaacac tgatcaagaa aatcttgttg 120
ggacccatga tgcccctatc agatgtgttg aatactgtcc agaagtgaat gtgatggtca 180
ctggaagttg ggatcagaca gctaaactgt gggatcccag aactccttgt aatgctggga 240
ccttctctca gcctgaaaag gtatataccc tctcagtgtc tggagaccgg ctgattgtgg 300
gaacagcagg ccgcagagng ttggtgtggg acttacggaa catgggttac gtgcagcagc 360
gcagggagtc cagcctgaaa taccagactc gctgcatacg agcgtttcca aacaagcagg 420
gttatgtatt aagctctatt gaaggccgag tggcagttga gtatttggac ccaagccctg 480
aggt 484

<210> 66
<211> 355
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1
<223> n = A,T,C or G

<400> 66
ngaagaaagt atgggtggag gtgaaggtaa tcacagagct gctgattctc aaaacagtgg 60
tgaaggaaat acaggtgctg cagaatcttc tttttctcag gaggtttcta gagaacaaca 120
gccatcatca gcatctgaaa gacaggcccc tcgagcacct cagtcaccga gacgcccacc 180
acatccactt cccccaagac tgaccattca tgccccacct caggagttgg gaccaccagt 240
tcagagaatt cagatgaccc gaaggcagtc tgtaggacgt ggccttcagt tgactccagg 300
aataggtggc acgcaacagc atttttttga tgatgaagac agaacagttc caagt 355

<210> 67
<211> 417
<212> DNA
<213> Homo sapiens

<400> 67
acgacacccc tcaagaggtg gccgaagctt tcctgtcttc cctgacagag accatagaag 60
gagtcgatgc tgaggatggg cacagcccag gggaacaaca gaagcggaag atcgtcctgg 120
acccttcagg ctccatgaac atctacctgg tgctagatgg atcagacagc attggggcca 180
gcaacttcac aggagccaaa aagtgtctag tcaacttaat tgagaaggtg gcaagttatg 240
gtgtgaagtc aagatatggt ctagtgacat atgccacata ccccaaaatt tgggtcaaag 300
tgtctgaagc agacagcagt aatgcagact gggtcacgaa gcagctcaat gaaatcaatt 360
atgaagacca caagttgaag tcagggacta acaccaagaa ggccctccag gcagtgt 417

<210> 68
<211> 223
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 29
<223> n = A,T,C or G

<400> 68
cacttgcaag cttgcttaca gagacctgnt aaacaaagaa cagacagatt ctataaaatc 60
agttatatca acatataaag gagtgtgatt ttcagtttgt ttttttaagt aaatatgacc 120
aaactgacta aataagaagg caaaacaaaa aattatgctt ccttgacaag gcctttggag 180
taaacaaaat gctttaaggc tcctggtgaa tggggttgca agg 223

<210> 69
<211> 396
<212> DNA
<213> Homo sapiens

<400> 69
acctttttc tctccaaagg aacagtttct aaagttttct ggggggaaaa aaaacttaca 60
tcaaatttaa accatatgtt aaactgcata ttagttgtgt tacaccaaaa aattgcctca 120
gctgatctac acaagtttca aagtcattaa tgcttgatat aaatttactc aacattaaat 180
tatcttaaat tattaattaa aaaaaaaact ttctaaggaa aaataaacaa atgtagaccg 240
tgattatcaa aggattatta aagaatcttt accaaaaatt tcaaccctac aacctaaaac 300
cgcaaatttc tatttttaaa catcagaaaa taactcttgg ttcattactt atgacccaaa 360
gtttttattt cactattcaa tatctgaaaa gtatca 396

<210> 70
<211> 402
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 6, 7, 38, 327, 367
<223> n = A,T,C or G

<400> 70
acccannccc acccaggcaa acagctccga catgtttngt aagtgagaca agccagtgca 60
agtttttttt ttttttcct ttttcttttt tttgtctttt gcttaccttc ttgcttaatg 120
gaattgttat ggctaagcac atagaaggcc aaaaaaggag tttttcaaac ccagcaaatc 180
aagtgcttgg attctgaact gccaaaagaa aactgcactt cccctcttaa gtaaaacgaa 240
atgagtttct taggtaaatg tattcatcag cccagataaa aaaaaaacca gttatgtgag 300
cgttagtcac tgctcatttc caggaanatc aaacaaaata ccagcccagc cagactcaca 360
tgtgggnata tatatataaa gcaagagagc cacacccaca ag 402

<210> 71
<211> 385
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 229, 292, 382
<223> n = A,T,C or G

<400> 71
accagtagag agtggcccct gcaggccact tataaacagg aagctctctc ctgagctcac 60
tgatcaacct gcccttggca cagacagaac ctaccagaaa agaacaagta caaaacacta 120
tcattatctg ttttctcaag acagtcccaa atgtccttgt gcgatcgcca caaactcagt 180
gattggccca agtcattccc gggtgccata aacagtaact ggtgtgcanc attagaacaa 240
ggggacacgg ccttgattct cttctgagca acatgaactg ggatttctgc cncccggat 300
ctcggctgcc acctccgaag aagtcgtgac cagccacctc cacagtaaaa gattcctccc 360
gtgagtatga tttggaatgc gncct 385

<210> 72
<211> 538
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> 326
<223> n = A,T,C or G

<400> 72
caattaatta acagaggtat aattgtctca ctttcagaag tgatcattta tttttattta 60
gcacaggtca taagaaaaat atatagaaaa ataatcaatt tcatatataa aaggattatt 120
tctccacctt taattattgg cctatcattt gttagtgtta tttggtcata ttattgaact 180
aatgtattat tccattcaaa gtctttctag atttaaaaat gtatgcaaaa gcttaggatt 240
atatcatgtg taactattat agataacatc ctaaaccttc agtttagata tataattgac 300
tgggtgtaat ctcttttgta atctgntttg acagatttct taaattatgt tagcataatc 360
aaggaagatt taccttgaag cactttccaa attgatactt tcaaacttat tttaaagcag 420
tagaaccttt tctatgaact aagtcacatg caaaactcca acctgtaagt atacataaaa 480
tggacttact tattcctctc accttctcca ggcctaggaa tattcttctc tggagccc 538

<210> 73
<211> 405
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 8, 9, 39
<223> n = A,T,C or G

<400> 73
actttatnna tggaattttc ttctacttgt atccatttnc cggggcttat ggacccattc 60
atactctcca tatttagaat caaaggttcc tttctgaaga gaccttaatt ttaaggtaaa 120
acgtggtcca agttcctgaa ttcccacttt cttttcactc ctgaatatgt atctgtgaaa 180
tctgaagaat atgtaatccc gttgattgtg gaatgtggca acctgccttc cgataaattg 240
aggattatga ggaaagagag atgcaaacat acgtccaatt gaatgaccca gccgtgttgt 300
aaaattattc agaattattt caggtatgtg ttctgtgggg tccttgcctc ttctcttaat 360
ttctttacga agacgaacac tgctcatttt aaaatgagca gttgg 405

<210> 74
<211> 498
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 34
<223> n = A,T,C or G

<400> 74
tgagccctgc acctgtttcc tgcaccccct gccnactggt tctatggcca caaggagttt 60
tacccagtaa aggagtttga ggtgtattat aagctgatgg aaaaataccc atgtgctgtt 120
cccttgtggg ttggaccctt tacgatgttc ttcagtgtcc atgacccaga ctatgccaag 180
attctcctga aaagacaaga tcccaaaagt gctgttagcc acaaaatcct tgaatcctgg 240
gttggtcgag gacttgtgac cctggatggt tctaaatgga aaaagcaccg ccagattgtg 300
aaacctggct tcaacatcag cattctgaaa atattcatca ccatgatgtc tgagagtgtt 360
cggatgatgc tgaacaaatg ggaggaacac attgcccaaa actcacgtct ggagctcttt 420
caacatgtct ccctgatgac cctggacagc atcatgaagt gtgccttcag ccaccagggc 480
agcatccagt tggacagt 498

<210> 75
<211> 458
<212> DNA
<213> Homo sapiens

<400> 75
agccttgcac atgatactca gattcctcac ccttgcttag gagtaaaaca atatacttta 60
cagggtgata ataatctcca tagttatttg aagtggcttg aaaaaggcaa gattgacttt 120
tatgacattg gataaaatct acaaatcagc cctcgagtta ttcaatgata actgacaaac 180
taaattattt ccctagaaag gaagatgaaa ggagtggagt gtggtttggc agaacaactg 240
catttcacag cttttccagt taaattggag cactgaacgt tcagatgcat accaaattat 300
gcatgggtcc taatcacaca tataaggctg gctaccagct ttgacacagc actgttcatc 360
tggccaaaca actgtggtta aaaacacatg taaaatgctt tttaacagct gatactgtat 420
aagacaaagc caagatgcaa aattaggctt tgattggc 458

<210> 76
<211> 340
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 15, 255, 283
<223> n = A,T,C or G

<400> 76
accttatacc aaaanaatgc ttattccaaa atatttttg tagctagtag ttctttcctt 60
ggaggtaaag aaaatacacc caaactttta attaccagga ttcagaatat ttaagagaac 120
aattttagtt aagaatcaaa tatactgaga ttcaaagagg ggaaaaaaag gaaatattat 180
agaagacaaa ggtcaaactg gcattccaga tctggagcaa ttttgtaaag caggaaaaca 240
actatgacaa tctgnagctt cttagatcat tatagtgaat gtncccattt actataaggg 300
tttttataat ggtgtttcct aaataaagga acataaatgt 340

<210> 77
<211> 405
<212> DNA
<213> Homo sapiens

<400> 77
actccatttg tggaactcgt gtcggagtct ggtaaacagc cgaatgtctt cctcccctac 60
agtttcctct ccttgcatga gagcagtgat gtcctgatta aaggcattaa ttttatctat 120
caggaagaac attttttcat tttcgtcttc cggtatgtcg acaccatact tttgtagctc 180
ctctgttatt ctctggtgag tctccttgat ttgattttct aacaggggca gagatttaca 240
gatatgtgtg atgagctcgc tggtaagttt ttctgccagg cagggaaccg tggcctttcc 300
ttcctccagc agatccctga aatatgggtg gttctcaaag aagatcttct ctctctgcag 360
ggcttcggac aggctcagct ggtcctggat ctcctgctgg ccccg 405

<210> 78
<211> 410
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> 8, 10
<223> n = A,T,C or G

<400> 78
acagcagntn tagatggctg caacaacctt cctcctaccc cagcccagaa aatatttctg 60
ccccacccca ggatccggga ccaaaataaa gagcaagcag gccccccttca ctgaggtgct 120
gggtagggct cagtgccaca ttactgtgct ttgagaaaga ggaaggggat ttgtttggca 180
ctttaaaaat agaggagtaa gcaggactgg agaggccaga gaagatacca aaattggcag 240
ggagagacca tttggcgcca gtcccctagg agatgggagg agggagatag gtatgagggt 300
aggcgctaag aagagtagga ggggtccact ccaagtggca gggtgctgaa atgggctagg 360
accaacagga cactgactct aggtttatga cctgtccata cccgttccac 410

<210> 79
<211> 512
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 35, 36, 474, 479
<223> n = A,T,C or G

<400> 79
acagtgaaaa acaaactaat ataaagcatt ccagnngata aaaacctcct caggcttatg 60
gtttgttttc caaggaaatt atgtttcaat gtaaagtttg aaatactcca gacatacatt 120
ccatgtaggt tttgggtgcc aatgttaaaa tttcaaattt tgcatgcaag gcttagcaaa 180
gaaacactgg cagaattcca gcatttgcaa aattctaagt tttggtgaat attgtaaata 240
ttacaattgg tattagaaag ccatgatgaa tccagaatta agagaaaacc catttcataa 300
atattttgtt tgattaaaaa ataccaggct taccatgttc taaataacac aagaaaatat 360
ctttaaaaaa aaaaggactg caatttaaca gtaatctgta tatctttagc tgccattaaa 420
aaaagaaaaa agaacaacca aaaacaatga aaatgttaca actggtataa agtnacccna 480
tgatgctccc cttacgagaa aacaaaactg tc 512

<210> 80
<211> 174
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 42, 49, 66, 68, 143, 152, 162
<223> n = A,T,C or G

<400> 80
tgattcccca gacctcaaat gggctaacac gcttctcttc tncagcagnc ttcctgtccg 60
tgaagntncc ttccagattg gtacatggaa ctgaaaacaa agggagcctc agctggattg 120
aaatctggag catgccacaa agncttgcac tnggcatttt cnagaagaac ccat 174

<210> 81
<211> 274
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> 32, 133, 219, 234, 239, 241, 272
<223> n = A,T,C or G

<400> 81
ttgcaacaag cacattaaat taaggcctgc tngaatttct tcctccccaa tcaggtaaac 60
tttctttgcc aataaagttt gaggaggtgg catttgaaaa tctctttaaa aaagaagtct 120
tcatctattc acnagaaaac tcaaaaataa ttttcattat caacacacaa actaactcaa 180
tctctgcttt aagtttctat tggccaattt ttctgattna tacgagaatt attntcagnt 240
ntagaaaatc ctggtctttg gtcattacaa gntg 274

<210> 82
<211> 101
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 25, 26, 44, 74, 75, 84, 87, 101
<223> n = A,T,C or G

<400> 82
atggagaaga tcgaacctga gcctnntgag aattgcctgc tacngcctgg cagccctgcc 60
cgagtggccc agcnncattt cacnagntgg gcatgatttg n 101

<210> 83
<211> 182
<212> DNA
<213> Homo sapiens

<400> 83
tattatgggg aaagataact gagaataaag ctatcatgca gatatttgca gagataaaag 60
taatgcagat actgagtgga gttttgatca aactatgctt gaaagccact ctaccactag 120
ttacacaaac caataatttc ccttcgcagt ggaagtcagc ttgagttttt tcaggtgttt 180
tt 182

<210> 84
<211> 229
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 163, 191, 203, 222, 223, 228
<223> n = A,T,C or G

<400> 84
actgtttgta gctgcactac aacagattct taccgtctcc acaaaggtca gagattgtaa 60
atggtcaata ctgacttttt ttttattccc ttgactcaag acagctaact tcattttcag 120
aactgtttta aacctttgtg tgctggttta taaaataatg tgngtaatcc ttgttgcttt 180
cctgatacca nactgtttcc cgnggttggt tagaatatat tnngttcng 229

<210> 85
<211> 500

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 9, 44, 494
<223> n = A,T,C or G

<400> 85
ggggagtang tgatttatta aagcaagacg ttgaaacctt tacnttctgc agtgaagatc 60
agggtgtcat tgaaagacag tggaaaccag gatgaaagtt tttacatgtc acacactaca 120
tttcttcaat attttcacca ggacttccgc aatgaggctt cgtttctgaa gggacatctg 180
atccgagcat ctcttcactc ctaacttggc tgcaacagct tccagagggg catcaaattt 240
ggcaagactt aacttgaaca gaggttcact aatgaagaag aagtctaaca gctcagaaac 300
aagagctggg cagaactcgg cattggcctg gtagcagcag agggccagcg tgaccagcag 360
gagacacacc gacagcttca tggtggcttg ttttgctgtg agctcagctt tcacaaacaa 420
tgagtgattt ggactccacc ccaggagcct gtggagctgc agagcccagg gctatttgta 480
cctgcccggg cggncgctcg 500

<210> 86
<211> 323
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 90, 93, 132, 180, 266, 270, 275, 279, 305, 316
<223> n = A,T,C or G

<400> 86
ccgccagtgt gctggaattc gcccttgccg cccgggcagg tactcagaag tcatttgtta 60
tttacaattg ggtttgtgtg ggatgggatn tanggcggat gagccagtgc ttttgcaatg 120
aagatgcaat antcattgtc ctctcccact gtctcctctt tcctcacccc atggcagctn 180
tcatgaccca ttcccaaagg gtccaccgag tcctgaactc agcttcatca ccaacattcc 240
tcgccttcag ttgaattcaa cactgncaan ggagnagang caaagacttg ggtcagggag 300
agggngggaa acacanaaca aac 323

<210> 87
<211> 230
<212> DNA
<213> Homo sapiens

<400> 87
gcagcattga gccacccccc tggcaggcga tacggcagct ctgtgccctt ggccagcatg 60
tggagtggag gagatgctgc ccctgtggtt ggaacatcct ggggtgaccc ccgacccagc 120
ctcgctgggc tgtcccctgt ccctatctct cactctggac ccagggctga catcctaata 180
aaataactgt tggattagac aaaaaaaaaa aaaaaaaaaa aaaaaaaagg 230

<210> 88
<211> 249
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> 31, 199, 244
<223> n = A,T,C or G

<400> 88
atgtgaccag gtctaggtct ggagtttcag nttggacact gagccaagca gacaagcaaa 60
gcaagccagg acacaccatc ctgccccagg cccagcttct ctcctgcctt ccaacgccat 120
ggggagcaat ctcagccccc aactctgcct gatgcccttt atcttgggcc tcttgtctgg 180
aggtgtgacc accactccnt ggtctttggc ccggccccat ggatcctgct ctctggaggg 240
ggtntagat 249

<210> 89
<211> 203
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 36, 42, 166, 167, 187
<223> n = A,T,C or G

<400> 89
tgtttacact gtcaaggatg acaaggaaag tgttcntatc tntgatacca tcatcccagc 60
tgttcctcct cccactgacc tgcgattcac caacattggt ccagacacca tgcgtgtcac 120
ctgggctcca cccccatcta ttgatttaac taacttcctg gtgcgnnact cacctgtgaa 180
aaatgangaa gatgttgcag agt 203

<210> 90
<211> 455
<212> DNA
<213> Homo sapiens

<400> 90
ctctaagggg gctggcaaca tggctcagca ggcttgcccc agagccatgg caaagaatgg 60
acttgtaatt tgcatcctgg tgatcacctt actcctggac cagaccacca gccacacatc 120
cagattaaaa gccaggaagc acagcaaacg tcgagtgaga gacaaggatg gagatctgaa 180
gactcaaatt gaaaagctct ggacagaagt caatgccttg aaggaaattc aagccctgca 240
gacagtctgt ctccgaggca ctaaagttca caagaaatgc taccttgctt cagaaggttt 300
gaagcatttc catgaggcca atgaagactg catttccaaa ggaggaatcc tggttatccc 360
caggaactcc gacgaaatca acgccctcca agactatggt aaaaggagcc tgccaggtgt 420
caatgacttt tggctgggca tcaatgacat ggtca 455

<210> 91
<211> 488
<212> DNA
<213> Homo sapiens

<400> 91
actttgcttg ctcatatgca tgtagtcact ttataagtca ttgtatgtta ttatattccg 60
taggtagatg tgtaacctct tcaccttatt catggctgaa gtcacctctt ggttacagta 120
gcgtagcgtg gccgtgtgca tgtcctttgc gcctgtgacc accaccccaa caaaccatcc 180
agtgacaaac catccagtgg aggtttgtcg ggcaccagcc agcgtagcag ggtcgggaaa 240
ggccacctgt cccactccta cgatacgcta ctataaagag aagacgaaat agtgacataa 300
tatattctat ttttatactc ttcctatttt tgtagtgacc tgtttatgag atgctggttt 360

tctacccaac ggccctgcag ccagctcacg tccaggttca acccacagct acttggtttg 420
tgttcttctt catattctaa aaccattcca tttccaagca ctttcagtcc aataggtgta 480
ggaaatag 488

<210> 92
<211> 420
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 30, 33, 34, 204, 225, 319, 372, 383, 385, 390, 414, 416, 418
<223> n = A,T,C or G

<400> 92
tctccggcag gctctgcccc ggtcgtagcn agnnaaccta taatcctgac ctttttttgta 60
gacaaccttg gtgctgaggt taactccatc cattgtagtg gcctgtatat caatgggacg 120
attgcatatt tttcctgggt gagctttcca gaggtctgaa attttctccc cacctttagt 180
ctgagatact ttatcatgat cganccactc cgtccactcc acgtnttgaa cccactcact 240
ggacaaagaa acattgaaat attcgccatg ctctgtctgg aacaatttga atacccgggc 300
agcagcagag cctcgatgnc caggatattc aatatggtct tccactgaag atgatggatt 360
tcctttcaca gntagaaaac ttncnagggn gtctaaatcc aaggtgcagg aagngngngc 420

<210> 93
<211> 241
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 11, 53, 168, 197, 231, 237
<223> n = A,T,C or G

<400> 93
accacgaatt ncaacatcca gatccaccac tatcctaatg ggattgtaac tgngaactgt 60
gcccggctcc tgaaagccga ccaccatgca accaacgggg tggtgcacct catcgataag 120
gtcatctcca ccatcaccaa caacatccag cagatcattg agatcganga caccttgag 180
acccttcggg ctgctgnggc tgcatcaggg ctcaacacga tgcttgaagg naacggncag 240
t 241

<210> 94
<211> 395
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 9
<223> n = A,T,C or G

<400> 94
actctattnt aattctgcct ttttatactt aattctaaat ttttcccctc taatttacaa 60
caaattttgt gatttttata agaatctatg cctccccaat tctcagattc ttctcttttc 120

tcctttattt ctttgcttaa attcagtata agctttcttg gtattttagg cttcatgcac 180
attcttattc ctaaacacca gcagttcttc agagacctaa aatccagtat aggaataact 240
gtgttagttc ttgaaaaagc attaaagaca ttttttccctg aaacatacag aacatgtcat 300
gccaaatctc ttgtttacat aataaactgg taataccggt gaattgcaca tacagatttt 360
atctccaaga tagaataact taaatattaa aacgt 395

<210> 95
<211> 304
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 15, 45, 47, 180, 216, 296
<223> n = A,T,C or G

<400> 95
cgaggtacag tgatngctcc ccctgggcaa tacaatacaa gaacngnggg ttttgtcaaa 60
ttggaacaag gaaacagaac cacagaaata aatacattgg ttaacatcag attagttcag 120
gttacttttt tgtaaaagtt aaagtacgag gggacttctg tattatgcta actcaagtan 180
actggaatct cctgttttct ttttttttttt taaatnggtt ttaatttttt ttaattggat 240
ctatcttctt ccttaacatt tcagttggag tatgtagcat ttagcaccac tggctnaaac 300
ctgt 304

<210> 96
<211> 506
<212> DNA
<213> Homo sapiens

<400> 96
acactgtcag cagggactgt aaacacagac agggtcaaag tgttttctct gaacacattg 60
agttggaatc actgtttaga acacacacac ttacttttc tggtctctac cactgctgat 120
attttctcta ggaaatatac ttttacaagt aacaaaaata aaaactctta taaatttcta 180
tttttatctg agttacagaa atgattactg aggaagatta ctcagtaatt tgtttaaaaa 240
gtaataaaat tcaacaaaca tttgctgaat agctactata tgtcaagtgc tgtgcaaggt 300
attacactct gtaattgaat attattcctc aaaaaattgc acatagtaga acgctatctg 360
ggaagctatt tttttcagtt ttgatatttc tagcttatct acttccaaac taatttttat 420
ttttgctgag actaatctta atcattttct ctaatatggc aaccattata accttaattt 480
attattaacc ataccctaag aagtac 506

<210> 97
<211> 241
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 144, 165, 167, 171, 187, 214, 215, 228, 239
<223> n = A,T,C or G

<400> 97
attttctttt taattacttt agagagctag ggatgcaaat gttttcagtt agaaagcctt 60
tatttacttt tggaaattga acaagaaatg catctgtctt agaaactgga gattatttga 120
tgttaggtaa aacatgtaat tgtntctctg gcaaatttgt atcantnatt ngaaaatgag 180

atattangaa aaaccaattc ttcttaaatc tagnncatct ttctttanaa gaacattana 240
t 241

<210> 98
<211> 79
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 9, 20, 22, 24, 33, 48, 54, 61
<223> n = A,T,C or G

<400> 98
ggcaaacana cttatgctgn ancngggttt tancaaggtt ttcaaagnaa aaancccatt 60
ngactttatg gaaaatatt 79

<210> 99
<211> 316
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 27, 29, 32, 68, 293
<223> n = A,T,C or G

<400> 99
ccacatatgt aaaacccaga aagaccngnt tngcactttc actgagagtt gagtcatctg 60
ggctgtcnac aggtgtctga cgtgtaaact tggaatcaaa ctgacttaca tcctcttcag 120
attgcaacag aggtttaaag gggggctcca cctttcgagc cagaagttct tcccagttaa 180
tgtgtctaaa gaatggatga gcttgaactt ctccagcgtc cccaggacca gctcccagac 240
gagaagcagc atttcttttc agcagctttt taagcagatc tctggcttct tgngtgaggt 300
agggaggcaa attgag 316

<210> 100
<211> 425
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 255
<223> n = A,T,C or G

<400> 100
accgctttca gaaagtttat atgggttatt cttcagcctc tcttttatgc ctttcgacct 60
ctgtttatca accccaaacc aattacgtat ctggaagtta tcaataccgt ggcacaggtc 120
acttttgaca ttttaattta ttacttttttg ggaattaaat ccttagtcta catgttggca 180
gcatctttac ttggcctggg tttgcaccca atttctggac attttatagc tgagcattac 240
atgttcttaa agggncatga aacttactca tattatgggc ctctgaattt acttaccttc 300
aatgtgggtt atcataatga acatcatgat ttccccaaca ttcctggaaa aagtcttcca 360
ctggtgagga aaatagcagc tgaatactat gacaacctgc ctcactacaa tttctggata 420
aaagg 425

<210> 101
<211> 156
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 141
<223> n = A,T,C or G

<400> 101
actgacttgg gaatgtcaaa attctttatt atgatcttcc gagtgttgtc ctgagctttg 60
ttggccctca actgcaggca gagaaccagg agcagggtgg cagggctggc cctgaacagg 120
agctggagca agcgcatgct ngagaaaaca gaaggc 156

<210> 102
<211> 230
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 14, 192, 194, 197, 214, 226, 227
<223> n = A,T,C or G

<400> 102
actccaggcc gggnctcagg ttatcaaaag tgcaggagct ctgatcagca tggaccactt 60
cttccaaaga atttccctgc tggccgtttg taggggttgt ggtaattcta taaccagtaa 120
tgtctggggt ggtgctcctc tcccaggaga ctgtgagcac tccagtgtca gggtttgcct 180
ccagatgcaa gntngtnggt ggagacaatg gtgncaccac tttgtnnaca 230

<210> 103
<211> 404
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 14, 17, 21, 23
<223> n = A,T,C or G

<400> 103
actgtgaacc ctgnggnttc nangcgacct acctggagct ggccagtgct gtgaaggagc 60
agtatccggg catcgagatc gagtcgcgcc tcgggggcac aggtgccttt gagatagaga 120
taaatggaca gctggtgttc tccaagctgg agaatggggg ctttccctat gagaaagatc 180
tcattgaggc catccgaaga gccagtaatg gagaaaccct agaaaagatc accaacagcc 240
gtcctccctg cgtcatcctg tgactgcaca ggactctggg ttcctgctct gttctggggt 300
ccaaaccttg gtctcccttt ggtcctgctg ggagctcccc ctgcctcttt cccctactta 360
gctccttagc aaagagaccc tggcctccac tttgcccttt gggt 404

<210> 104
<211> 404
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> 340, 362, 366, 391
<223> n = A,T,C or G

<400> 104
accaggttat ataatagtat aacactgcca aggagcggat tatctcatct tcatcctgta 60
attccagtgt ttgtcacgtg gttgttgaat aaatgaataa agaatgagaa aaccagaagc 120
tctgatacat aatcataatg ataattattt caatgcacaa ctacgggtgg tgctgaacta 180
gaatctatat tttctgaaac tggctcctct aggatctact aatgatttaa atctaaaaga 240
tgaagttagt aaagcatcag aaaaaaaagt gggtattcct acaagtcagg acattctacg 300
tgactataat ataatctcac agaaatttaa cattaatacn ttctaagatt taattcttag 360
antctnggta aacaaagtag ctcctgtgga natgattggc atca 404

<210> 105
<211> 325
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 19, 250, 258, 289
<223> n = A,T,C or G

<400> 105
acagcagaag ccagtctang atggtgtgat tcaatttctg cctctagtat ttctttgtct 60
tgtttttcct tcaatttaga agtgagcatt gtgttctcag ctatcagaac tttaagctgc 120
ccactatatt gagatgccct tttagctaat gattcctctt tcagttttag ggtcatctga 180
agttcagcat tcttttcttt taaaatctta atgtcctcaa agtatttatt ttccttttcc 240
tggtattggn gtttcagngt ggctatttcc agttttagca tggcaattnc ctttttcaac 300
atgcaatttt catgtaagag ataat 325

<210> 106
<211> 444
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 13, 165, 312, 347, 384, 387, 396, 398, 419
<223> n = A,T,C or G

<400> 106
actgtcttca atnctatgcg tgcaggtgtc taccacaggc aaacagtttt ctccccattt 60
tgtagtaatg tgattttcct attagcaaaa agaggtcacc agcccctgta gacttaaggg 120
actcaagtca caggatgggg atttcctctt aatatttttt atttngttgt ttgaactctt 180
gatgcaacat tgtagagcag ggtgttcagg acctgctgtg cccaagggac tgataaagga 240
aaaagctcta tttattcttt ttgtgatttg atgcacagat gaaaaactta acacacaata 300
acagaagttg gncgttaata aatcacatcc taggctttca gcgcttncgt aagcagacga 360
catcttcagt tttctagctc ttgnagnttc aacacngnaa catcaatgat gcatatgtnc 420
agaatcagtt acaaagacca tccg 444

<210> 107
<211> 287
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 12, 15, 23, 169, 184, 231, 248, 263, 286
<223> n = A,T,C or G

<400> 107
acctgcactc gnacntcagg cantaggcct ccacgtcatg gccaggcact ggcatgggct 60
ccaccacgtg caggcagttg cagtccttct gggatacatt ctggttgtaa atgtgcccac 120
tgatgtttct ataaggtggg acagatgcat ttgcaccgga tatcttcana actcttgttg 180
gctncagctg ggggcaccaa caaacacccg accacagcca ccaaagataa nagcttcatg 240
cttatcangc ttgctgggcc agnaaagccg gacacctaca agcccnc 287

<210> 108
<211> 478
<212> DNA
<213> Homo sapiens

<400> 108
acatgtgcaa gaatttggaa aagcagggca ttttccctca tctctcctag agggaatatc 60
acagcatctg tctctactgg tccacactgg actgcagaca atgtcaaaac tctggatttg 120
gaatgcggct gatttccttt ccccttaag gagttttcca agaatttcat aaccatcagt 180
tgttatattt ccagcttcct tgatgtcttt ttctataatt tcatagcagt caatgtaaat 240
cttaacactt tttgaggtca ctacaatatg aaccttgtga aaacttccat aaaataatgt 300
ctttacttct tctgtgtcaa atgtaacagt ttgcacctcg cctcttgtat ccttgttaaa 360
gaatgataac gtcttgctag aaggatctgc aatcactcca acttgtggtt tgtagtctct 420
gtctgtgatt tgccaaattg caaaagggtc actgggagtt tctgggagaa gtctgaat 478

<210> 109
<211> 361
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 15, 134, 201, 214, 309, 312
<223> n = A,T,C or G

<400> 109
gaatttttct tctanaataa gtattctgtt gacacagact attggtaaga ttttcaacat 60
aaggtaatgc taggactggc ctcctagcat gagttgtgag taaagatctg gtctgttgtt 120
tctccaaaag aagnttctta ctgcttgtct ctcatgagtt ttctgtttct gctttctctt 180
tttcatattg atatatacgg ntttttaaat ggtnattgta attaaatatc tcctcatttt 240
tctcttttag gagatgatgt tgcattttcc tctcaagaaa atgaatatca attgttatct 300
tgcttttgnt gncagctttc ttatgtgcat gaactaattg ctgttgaagc cacatatttt 360
t 361

<210> 110
<211> 305
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> 12, 13, 16, 110, 142, 143, 150, 161, 192, 198, 217, 223,
244, 263, 274, 285, 287
<223> n = A,T,C or G

<400> 110
acataatgac tnncanagtg aagctgattg gctgcggttc tggagtaaat ataagctctc 60
cgttcctggg aatccgcact acttgagtca cgtgcctggc ctaccaaatn cttgccaaaa 120
ctatgtgcct tatcccacct tnnaatctgn ctcctcattt ntcagctgtt ggatcagaca 180
atgacattcc tntagatntg gcgatcaagc attccanacc tgngccaact gcaaacggtg 240
cctncaagga gaaaacgaag gcnccaccaa atgnaaaaaa tgaangnccc ttgaatgtac 300
taaaa 305

<210> 111
<211> 371
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 341, 369
<223> n = A,T,C or G

<400> 111
cgggggccag ccgggggtat tcagccatcg atcaaactca aaacctggaa tgatatccac 60
tctcttttc ttaagctcag ggaaatattc caagtagaag tccagaaagt catcggctaa 120
gatgcttcgg aatttgaatt catgcacata ggccttgaga aaactgtcaa actgatcctg 180
atcacccacc aagtgggcca ggtatgagac aaagcagaaa cctttctcgt aggggtctc 240
attataggtg tcgtccgggt caacgcctgg ttcaatcttc acgcggagct tgttgagtgg 300
gttttcctct ccagtgatgt ccatgtgctg acgcagcaga ncccgccccg ttgcagcctc 360
caagcaggng t 371

<210> 112
<211> 460
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 16, 25
<223> n = A,T,C or G

<400> 112
acatcttagg tttttnttcc tttantgtga agaggcgttt ccaccaaccc acagctctgc 60
gtcgagtttt tactagattg ctgcaaattt catggaatct ttgctgttgt tcagtggtcc 120
atttattgga gccaaaaatt ctagggcgct agaatgggaa caaggtagtc agccaagcac 180
aaaaacataa caaaacagga aacgccggac agaacagatg gatctagata gtagataatc 240
agaaacacca aagaaaccac acccatgatg gcaggtggaa accaggctct ttctcatcgg 300
aggactttat cagccatcag catcacttct ccccatcctt gcagctgttc ttccagactt 360
gcagtctctg cagccagcag gttgggtgct gcgattacct ccctccgcca tcgtctcggg 420
gatgcagtct ctacaagcgc aggccacctc cccaacgagt 460

<210> 113
<211> 204
<212> DNA
<213> Homo sapiens

<400> 113
gagaagacag cagagctgct ttccgcctct ttgagaccaa gatcacccaa gtcctgcact 60
tcaccaagga tgtcaaggcc gctgctaatc agatgcgcaa cttcctggtt cgagcctcct 120
gccgccttag cttggaacct gggaaagaat atttgatcat gggtctagat ggggccacct 180
atgacctcga gggacacccc cagt 204

<210> 114
<211> 137
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 46, 52, 131
<223> n = A,T,C or G

<400> 114
accgcaagaa atgggacagc aacgtcattg agacttttga catcgnccgc tngacagtca 60
acgctgacgt gggctattac tcctggaggt gtcccaagcc cctgaagaac cgtgatgtca 120
tcaccctccg ntccctg 137

<210> 115
<211> 278
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 13, 124, 147, 170, 209, 234
<223> n = A,T,C or G

<400> 115
gcgggcggct ttntggactc gctcatttac agagcatgcg tggtcttcac ccttggcatg 60
ttctccgccg gcctctcgga cctcaggcac atgcgaatga cccggagtgt ggacaacgtc 120
cagntcctgc cctttctcac cacggangtc aacaacctgg gctggctgan ttatggggct 180
ttgaagggag acgggatcct catcgtcanc aacacagtgg gtgctgcgct tcanaccctg 240
tatatctttg gcatatctgc attactgccc tcggaagc 278

<210> 116
<211> 178
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 12, 22, 81, 96, 149, 165, 171, 176, 177
<223> n = A,T,C or G

<400> 116
acaccgtcat angtcaaaag tncagtgctg gccatcttgc atcaaatgtt cttaaggcag 60
tgactggcta tcaaccacag nttctgtctc cccagntgca aacacaggat ccatgcaaca 120
gttctgagac catacactta gaaaccacng ggagatgcgg atcanatgca naactnnc 178

<210> 117
<211> 360
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 13
<223> n = A,T,C or G

<400> 117
actccccaat ggnggattta ttactattaa agaaaccagg gaaaatatta attttaatat 60
tataacaacc tgaaaataat ggaaaagagg tttttgaatt tttttttaa ataaacacct 120
tcttaagtgc atgagatggt ttgatggttt gctgcattaa aggtatttgg gcaaacaaaa 180
ttggagggca agtgactgca gttttgagaa tcagttttga ccttgatgat tttttgtttc 240
cactgtggaa ataaatgttt gtaaataagt gtaataaaaa tccctttgca ttctttctgg 300
accttaaatg gtagaggaaa aggctcgtga gccatttgtt tcttttgctg gttatagttg 360

<210> 118
<211> 125
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 23, 59, 61
<223> n = A,T,C or G

<400> 118
gcgtcgtgct atgaccggac ttngtcttga aaggggatga cagcatggga ggcaatggnt 60
ncacatgtaa accccacact gaaagacaag gcactctctc cacagcagcc ccaacaacta 120
gccct 125

<210> 119
<211> 490
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1, 104, 110, 117, 128, 142, 144, 157, 161, 223, 230, 247,
465, 484
<223> n = A,T,C or G

<400> 119
nacaaagaaa agcaaaaaga atttacgaag attgtgatct cttattaaat caattgttac 60
tgatcatgaa tgttagttag aaaatgttag gttttaactt aaanaaaatn gtattgngat 120
tttcaatntt atgttgaaat cngngtaata tcctgangtt nttttccccc cagaagataa 180

agaggataga caacctctta aaatattttt acaatttaat ganaaaaagn ttaaaattct 240
caatacnaat caaacaattt aaatatttta agaaaaaagg aaaagtagat agtgatactg 300
agggtaaaaa aaaattgatt caattttatg gtaaaggaaa cccatgcaat tttacctaga 360
cagccttaaa tatgtctggt tttccatctg ctagcatttc agacatttta tgttcctctt 420
actcaattga taccaacaga aatatcaact tctggagtct attanatgtg ttgtcacctt 480
tctnaagctt 490

<210> 120
<211> 361
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 142, 167, 307, 347
<223> n = A,T,C or G

<400> 120
caggtacagt aaaattaaca cttccgttac aggaaatgta tgacgcaaat aatataaaat 60
taaaaggtga aaaaaaggtg acactggttt cctaagatac aatttactct ttacaaccag 120
ggtccacagg tccaggctgc anagcgggca tcaggaagca gagcctncca cctgcttctg 180
ggggacctgg taataaaaat cagcccatga tggcgctatg gcctctcaga caccacacgc 240
tgcctaaaca cctagagctc tggaaatagt caacaggaga gtgatttcca tgggggaaat 300
tttaaanaag atgcacatgg gacaggcaat agaaagtttg ccaaggntaa atttggtacc 360
t 361

<210> 121
<211> 405
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 15, 360, 380, 393, 398, 401
<223> n = A,T,C or G

<400> 121
acacaaaacc ttttnacata ttgggggctt accgctccaa attgctactg atcctttaag 60
ttcacaatat agaatttctt caccaattaa gtaataaccc tcattacaaa taaagtgcat 120
ctgataacca aactcgtaag tcccatttgc agggactgct tggccattta aaggatcccg 180
tatatatgga catgtttctc tataacaggc gtcatctgag acaggtagcc atgtatgatt 240
ccgatcacaa atagtatggg tggcaagagg aggtatatag aagtatcctt ttttacactt 300
ataatctact cgttcaccaa tctcatagta gggttttggt ttaccaatga gcctccatan 360
cttcaaatgt tgggtggctn ctcacaggca tcnggcanaa ngagt 405

<210> 122
<211> 152
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 15, 150
<223> n = A,T,C or G

<400> 122
accccgctcc gttgncacag atcgctgtct gcccactcca tcggccattc acttggcagg 60
tgcgattggc agagccccgg agagtgtaac cgtcatagca gtggaaagag atctcatcac 120
tcacattgta gtagggagac cggggccaan ta 152

<210> 123
<211> 336
<212> DNA
<213> Homo sapiens

<400> 123
acatctgaca tatttatata gcacataaat tagggagtgc tctgacccct gcccgtggag 60
cccaagcact gagcagggag gtgaacgcca gtccagaaag aaggtgctgg agcccctgct 120
ctgtcctctc catcacgggg ctcccctagg gcctccccag gcctccttgg ctcagtccag 180
gtgtctgcag gaggaaggtg ttgtctgcat ttagtgtctg agactgggtt tgaggaggca 240
ccagataaaa ggagatacac ttgcagctat aaagtcagct tcaaacccca gggcttgtaa 300
ttccaagagg agggtgggga ggcgaggcca tagtct 336

<210> 124
<211> 253
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 248, 253
<223> n = A,T,C or G

<400> 124
ctgcaagagc ccagatcacc cattccgggt tcactccccg cctccccaag tcagcagtcc 60
tagccccaaa ccagcccaga gcagggtctc tctaaagggg acttgagggc ctgagcagga 120
aagactggcc ctctagcttc tacccctttgt ccctgtagcc tatacagttt agaatattta 180
tttgttaatt ttattaaaat gctttaaaaa aacaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaagntt gtn 253

<210> 125
<211> 522
<212> DNA
<213> Homo sapiens

<400> 125
acaactgcaa gtctaagata atgttcattc attcccatca taaatgtaac attctaaata 60
ggtgtcttct gatgtcatct gtcagaattt cttttaaact ttttcttcat cttcaacatt 120
atcaaagttc atccttattc ctcttgcctt gatttcggag agtttccaat ttttcactta 180
ttaaggcagc gattgctttt gcatctctgg tatttatctg ctcttcttga aaatttctct 240
ttgctctttc gtagaaataa aacttaacag ttggataggc cctgatccca gctttctggc 300
atgtctgagc ataagcctga cagtctactt ttccagcttt cacttttcct ttaatcatcc 360
tagccaagag ctcaaattct ggagcaaaat tctggcaagg tccacaccaa ggagcataga 420
aatcaatcac ccaatgattt ttcccttgta gaacttttttc actgaaagtc tgaggtgtta 480
gatctgtgga tacttgaggt aaaaatccta gaccccagat tc 522

<210> 126
<211> 374

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 302
<223> n = A,T,C or G

<400> 126
tttttaagat attaacttta cctttataaa tctttgtgtg aaatgaaaaa aaaaatcaag 60
gcatacaaat ttcattgtgt tctacatttt taaataccat cctttgtctc cgttaaaaga 120
ttttcatcca tttattcaaa aacctttaa gttcaactgt ccaatttaag acagagtgaa 180
gacatttttg agtatctgaa ctaagcattg tcttgactga aacgaagtaa gaactcaatg 240
agagtccttg tgggcctccc aggcatgcct ttccgtagat agggaacttc atctttgttg 300
gncatcacgc ctgctatgtc taaatgtgcc cacttaggat gagttacgaa ttctttcagg 360
aatgctgcag ctgt 374

<210> 127
<211> 130
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 12, 37, 47, 69, 75, 87, 112, 115, 124
<223> n = A,T,C or G

<400> 127
aaagccaaga cngccattgg cactgctatg gtaaggncac agggcancca gggccttctg 60
gcaaaaggng atacnaccag cactatnaac agacaggaca tggttgagag gnagnctaca 120
caantcctaa 130

<210> 128
<211> 350
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 14, 16, 24, 146
<223> n = A,T,C or G

<400> 128
acactgattt ccgntnaaaa gaancatcat ctttaccttg acttttcagg gaattactga 60
actttcttct cagaagatag ggcacagcca ttgccttggc ctcacttgaa gggtctgcat 120
ttgggtcctc tggtctcttg ccaagnttcc cagccactcg agggagaaat atcgggaggt 180
ttgacttcct ccggggcttt cccgagggct tcaccgtgag ccctgcggcc ctcagggctg 240
caatcctgga ttcaatgtct gaaacctcgc tctctgcctg ctggacttct gaggccgtca 300
ctgccactct gtcctccagc tctgacagct cctcatctgt ggcctgttga 350

<210> 129
<211> 505
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 471
<223> n = A,T,C or G

<400> 129
acaataccaa agcttcataa tgctaaagaa aaccaaaaca aaagacaatg gtttacacag 60
ggaaataacc ctaaggcaat atgaaaacag tcataattta ttactgataa agagtaaagg 120
catccttccc atagaggggg ggaattcaca gggaacacta attatatcag atgaaccacg 180
gggatagaaa ataggcccat ttttaaaatt cattgagaaa ttattacttt ttctccacaa 240
ctgtgattct atacaaaata taaaccctgc aaaccttatg tgctacctga cagataaaag 300
tagcaggagc cagactcttg aagcacttga gactgatttc tacaaagtcc aggaagagca 360
atgattccag tgtgcagtgc tgatgcatgt gtgagcctaa catgttattc agctctggtt 420
gcagccccat ctacatgggg cccagttagt ttttagggag tcacagatta ngcaggcaac 480
cgaggggcat gatttaaaaa gcaca 505

<210> 130
<211> 526
<212> DNA
<213> Homo sapiens

<400> 130
acaaaagagc ctgattcttt ttaattccac aaatacctag catctcaaag taacatgtaa 60
acaaacttct atgctgctca atgaatcctt ccaatttcga taataaacta aatagtattg 120
gatctagtat atgactttca tgtgtaagtt atggttctat ccattacttt aacaatatta 180
ctgatgtaac agagaaaaat tttcaactat tgtacttatt taaaacaaac tgacaagttc 240
aagcacctgt cttcagaaaa gccagcagca ttttttttt tttaacatac tcaaagtaag 300
atttggccta agcccttaat acctttctga acagccatgc aactaaacac cctcaggaga 360
tgttacataa gggagagaag aacatggagc aatttgcact ttttccccta gataatatta 420
acaaggtaaa gcaaatccag atctttatga atgaatggct gtcatgttta atacacttgg 480
agctctataa aactagagcc actatcatat atgtttatat agatat 526

<210> 131
<211> 477
<212> DNA
<213> Homo sapiens

<400> 131
ctcagttttc ccagcaacag atgctcctga gcaatttatt agtcaagtga cggtgctgaa 60
atacttttct cattacatgg aggagaacct catggatggt ggagatctgc ctagtgttac 120
tgatattcga agacctcggc tctacctcct tcagtggcta aaatctgata aggccctaat 180
gatgctcttt aatgatggca cctttcaggt gaatttctac catgatcata caaaaatcat 240
catctgtagc caaaatgaag aataccttct cacctacatc aatgaggata ggatatctac 300
aactttcagg ctgacaactc tgctgatgtc tggctgttca tcagaattaa aaaattgaat 360
ggaatatgcc ctgaacatgc tcttacaaag atgtaactga aagacttttc gaatggaccc 420
tatgggactc ctcttttcca ctgtgagatc tacagggaac ccaaaagaat gatctag 477

<210> 132
<211> 404
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> 10, 15, 19, 24, 87, 125, 140, 355, 390, 399
<223> n = A,T,C or G

<400> 132
accacacgan cgggnatcnt ttgnacatag tgagacccgg ctgattccca tacatgaatc 60
cattcatgga gtgcatttta ttagatncct gaaagtcttc atcttcctta tccacctgat 120
caggngcagt tgtaaacatn cctaatatta tcttccagga gtaaactctc attctcatca 180
aatactgtag gaaacaaata gaattccttg tctacatctt tctgtctccc atttgcatat 240
aaacttcctt tcttgcatat tttcattggc ccaataagcc cagtgaatat atctttagtg 300
ggatccacag cagaataata catcttagct agacacacag ggatctgcat tacgngggtc 360
ctacttcttt ggggacagcc cttcatacgn gaatgtttnt gtgg 404

<210> 133
<211> 552
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 529
<223> n = A,T,C or G

<400> 133
accccaaatt atctctctcc tgaagtcctc aacaaacaag gacatggctg tgaatcagac 60
atttgggccc tgggctgtgt aatgtataca atgttactag ggaggccccc atttgaaact 120
acaaatctca aagaaactta taggtgcata agggaagcaa ggtatacaat gccgtcctca 180
ttgctggctc ctgccaagca cttaattgct agtatgttgt ccaaaaaccc agaggatcgt 240
cccagtttgg atgacatcat tcgacatgac tttttttgc agggcttcac tccggacaga 300
ctgtcttcta gctgttgtca tacagttcca gatttccact tatcaagccc agctaagaat 360
ttctttaaga aagcagctgc tgctcttttt ggtggcaaaa aagacaaagc aagatatatt 420
gacacacata atagagtgtc taaagaagat gaagacatct acaagcttag gcatgatttg 480
aaaaagactt caataactca gcaacccagc aaacacaggg acagatgang agctccacca 540
cctaccacca ca 552

<210> 134
<211> 496
<212> DNA
<213> Homo sapiens

<400> 134
acattgatgg gctggagagc agggtggcag cctgttctgc acagaaccaa gaattacaga 60
aaaaagtcca ggagctggag aggcacaaca tctccttggt agctcagctc cgccagctgc 120
agacgctaat tgctcaaact tccaacaaag ctgcccagac cagcacttgt gttttgattc 180
ttctttttc cctggctctc atcatcctgc ccagcttcag tccattccag agtcgaccag 240
aagctgggtc tgaggattac cagcctcacg gagtgacttc cagaaatatc ctgacccaca 300
aggacgtaac agaaaatctg gagacccaag tggtagagtc cagactgacg gagccacctg 360
gagccaagga tgcaaatggc tcaacaagga cactgcttga gaagatggga gggaagccaa 420
gacccagtgg gcgcatccgg tccgtgctgc atgcagatga gatgtgagct ggaacagacc 480
ttttctgggc cacttt 496

<210> 135
<211> 560
<212> DNA

<213> Homo sapiens

<400> 135
actgggagtg atcactaaca ccatagtaat gtctaatatt cacaggcaga tctgcttggg 60
gaagctagtt atgtgaaagg caaatagagt catacagtag ctcaaaaggc aaccataatt 120
ctctttggtg caggtcttgg gagcgtgatc tagattacac tgcaccattc ccaagttaat 180
cccctgaaaa cttactctca actggagcaa atgaactttg gtcccaaata tccatctttt 240
cagtagcgtt aattatgctc tgtttccaac tgcatttcct ttccaattga attaaagtgt 300
ggcctcgttt ttagtcattt aaaattgttt tctaagtaat tgctgcctct attatggcac 360
ttcaattttg cactgtcttt tgagattcaa gaaaaatttc tattcttttt tttgcatcca 420
attgtgcctg aacttttaaa atatgtaaat gctgccatgt tccaaaccca tcgtcaagtg 480
tgtgtgttta gagctgtgca ccctagaaac aacatattgc ccatgagcag gtgcctgaac 540
acagacccct ttgcattcac 560

<210> 136
<211> 424
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 407
<223> n = A,T,C or G

<400> 136
accagcaaat ctccattagc atttctcagg tttcatgatc cttttcagat atgttggttg 60
attttatgta tatattgctt agaaacaaaa atccacctga tattaaaaca aaccaaaaaa 120
aatcataaaa gcaagcaaat gaacaaaaaa ccctagtttt gttgtgcttt tctttcacat 180
ttcctacagg gagatttgta tatctcagat actttcaaaa tctaataggt aagtaaaatt 240
agtgccttaa ccaaacagta agataccaaa gaatcctcca tcacaagtta ctgaatcaaa 300
cttctcatga catttgcggt atattcagat ttgaagattt tttaaattta gaatttaaaa 360
caaactttag actgctgatt ttccatattt caaagactgt agctgtntgc agcatataaa 420
tgga 424

<210> 137
<211> 392
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 8, 182, 293, 314, 375, 378
<223> n = A,T,C or G

<400> 137
tgcggggntg aaggctagca aaccgagcga tcatgtcgca caaacaaatt tactattcgg 60
acaaatacga cgacgaggag tttgagtatc gacatgtcat gctgcccaag gacatagcca 120
agctgggccc taaaacccat ctgatgtctg aatctgaatg gaggaatctt ggcgatcagc 180
anagtcaggg atgggtccat tatatgatcc atgaaccaga acctcacatc ttgctgttcc 240
ggcgcccact acccaagaaa ccaaagaaat gaagctggca agctactttt cancctcaag 300
ctttacacag ctgnccttac ttcctaacat ctttctgata acattattat gctgccttcc 360
tgttctcact ctganatnta aaagatgttc aa 392

<210> 138

<211> 284
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 168, 172, 218, 242, 245, 266, 268, 270
<223> n = A,T,C or G

<400> 138
tgcctgtgca cctctttgct tgaaatatgg caagacttgg aaaaatgttt gcccttagaa 60
tctatctcac tactttagtt agttgtctcc tttgggcctg ggcacagttc tggccctgat 120
ctggaacaga ctccctttc taaaactgaa cttgaccaca tcaaaagntt gnaaaacaat 180
ctccatggta attaaacttg cattcaacac catatggnaa cagaagatgg caggaggata 240
anatncagat cttatgatct ttccangnan ggcatgttac atga 284

<210> 139
<211> 249
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 23, 28, 33, 67, 68, 81, 161, 168, 175, 183, 217, 248
<223> n = A,T,C or G

<400> 139
gaggaagggg ggactgaatc tancaccntg acngaactag agacagccat gggcatgatc 60
atagacnnct ttacccgata ntcgggcagc gagggcagca cgcagaccct gaccaagggg 120
gagctcaagg ggctgatgga gaaggagcta ccaggcttcc ngcagagngg aaaanacaag 180
gangccgtgg ataaattgct caaggaccta gacgccnatg gaggatgccc aggtggactc 240
cagcgagnt 249

<210> 140
<211> 390
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 26, 27, 35, 41, 96, 319
<223> n = A,T,C or G

<400> 140
tcataatggt tggggcagct ataatnnact acaanaatca natgtttcac atctagacct 60
cgggcagcaa cagaggtagc cacaagaagt ttgcangtcc cattcttaaa gtcatttatg 120
atgctatctc tgtcatattg atcaatgcct ccatgaagag acatgcaagg ataagatgct 180
ctcattaaat ccttaagaag accatcagca tgttcctgct tatccacaaa tataatgaca 240
gatcctgact cttgataatg gcctagaagc tcaagtaact tcaagaattt cttttcttct 300
tcaatcacaa tcacttgtng ctccacatct gagcaaacca cactcctgcc tccaacttgt 360
acctgccccg ggcgggcgct caagggcgaa 390

<210> 141
<211> 420

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 20, 21, 23, 28, 155, 174, 221, 239, 240, 258, 265, 302, 307,
316, 342, 346, 374, 387, 388, 402, 418
<223> n = A,T,C or G

<400> 141
gacactcagg gaaaagcatn ngncaaanag agcttaaaat gcatcgccaa cggggtcacc 60
tccaaggtct tcctcgccat tcggaggtgc tccactttcc aaaggatgat tgctgaggtg 120
caggaagagt gctacagcaa gctgaatgtg cgcancatcg ccaagcggaa cccngaagcc 180
atcactgagg tcgtgcagct gcccaatcac ttctccaaca natactataa cagacttgnn 240
cgaagcctgc tggaatgnga tgaanacaca gggcagcaca atcaggagac agcctgatgg 300
anaaaantgg gcctancatg gccaggcctc ttccacatcc tngcangaca gaccactgtg 360
cccaaacaca cccnctgagc tgacttnnac aggagacgca cnaaggagcc cggcagangc 420

<210> 142
<211> 371
<212> DNA
<213> Homo sapiens

<400> 142
gggttcgaca atgctgatcc gcaattagaa gacactggta agctgtgtta cactgggctt 60
cattgaaatc ttcaaggata tagccagctc ctgctcgaag ctgggattct gtatactgct 120
tgttgaaagg aggaatttcc aaaaattcct cctcttcttc actgcttcct gtaggaccat 180
ctggcagttt ggagcggctg gccaacttgt cactggttgt ggccatggta aggagaaatg 240
cgtagcccag aaacaaggtc ttgttgagag gcaaaggccc tctctgctct tccagggcag 300
agggttcacc ggtgttgtct ccactctcac aggggctcac aaactctcct gcccctactt 360
gcaccaggtt t 371

<210> 143
<211> 270
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 13, 20, 41, 76, 77, 104, 110, 123, 145, 154, 165, 190, 199,
217, 239, 241, 247, 262, 267, 269
<223> n = A,T,C or G

<400> 143
ggtggctgtg atnacctttn ttagtttaca aataaaaaag ntaaaaagaa atactgtgtt 60
tagggtaagg taacannttc atctaatcag aggagagtga agangaggcn ctgccttcta 120
ggngctgtga ccttctcctt ttcgngattc ttcnccacct tgggnaacat cttccccgct 180
atgctggaan tacttcggng ttctgcggtg gccatgntga acatctgatg aactgaaant 240
ncatccnaat gcacacgaag anatagncna 270

<210> 144
<211> 259
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> 28, 167, 223
<223> n = A,T,C or G

<400> 144
ttctctttgc tttttataat tttaaagnaa ataacacatt taactgtatt taagtctgtg 60
caaataatcc ttcagaagaa atatccaaga ttctgtttgc agaggtcatt ttgtctctca 120
aagatgatta aatgagtttg tcttcagata aagtgctcct gtccagnaga actcaaaagg 180
ccttcaagct gttcagtaag tgtaggttca gataagactc cgncatacga attccagctt 240
cccgtgccca ctgtacctc 259

<210> 145
<211> 433
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 8, 406
<223> n = A,T,C or G

<400> 145
accacatnta ccatagtgta attagtttta attttcacat gaatcaaagg tttcctttca 60
tgtctattta cagtccaatt gtgccaaact cttacttgtg tgctgactaa caaggcattt 120
aggtgtgcag catcctagag tgctccaggg cagtgtcagc gttctcggga gtaaaaggtg 180
ccacttggta gcaatgatat tccagaatta aatgggtttt tgttgccatg gagactgcat 240
ttatataaat gtagcctgta gcttaagtta actaaaccta atgctgctgt taaaaacagt 300
ttattttaat attaaaatac agttgattag caacagcggt gctgtatttt aagagacact 360
ttattggaag tgcaatcata gttatttgtt ttcacaattt tacagngcat tctaattact 420
gatgggtgca att 433

<210> 146
<211> 576
<212> DNA
<213> Homo sapiens

<400> 146
acctcaggcc tgtgcacctc tttgcttgaa atatggcaag acttggaaaa atgtttgccc 60
ttagaatcta tctcactact ttagttagtt gtctcctttg ggcctgggca cagttctggc 120
cctgatctgg aacagactcc cttttctaaa actggacctt gaccacatca aaagtttgta 180
aaacaatctc catggtaatt aaacttgcat tcaacaccat atggtaacag aagatggcaa 240
aggataagat tcagatctta gatctttcca agtagggcat gttagatgat agaaggatta 300
gttgcaagct ggatctgagc tcaggcttgg gcatgaagga aactgtctcc catgtggttt 360
ggaagagtta ggggctccct gagctctatt gtgaactata cgggtttcat ccaaggaatg 420
gtatgatgtg ggcataaaac cattcttcag acaactgaag atggtcccct tctgtagcca 480
gaaacactag ctgtcctgca ttgccatttc ctttacccca ggcggcctgc agaaggaaag 540
gccataatta attaaaaggc ttaatgaagt tttgga 576

<210> 147
<211> 300
<212> DNA

<213> Homo sapiens

<400> 147
ccagccccca ggaggaaggt gggtctgaat ctagcaccat gacggaacta gagacagcca 60
tgggcatgat catagacgtc tttacccgat attcgggcag cgagggcagc acgcagaccc 120
tgaccaaggg ggagctcaag gtgcttatgg agaaaggagc taccaggctt ctgcagagtg 180
gaaaagacaa ggatgccgtg gataaattgc tcaaggacct agacgccaat ggagatgccc 240
aggtggactt cagtgagttc atcgtgttcg tggctgcaat cacgtctgcc tgtcacaagt 300

<210> 148
<211> 371
<212> DNA
<213> Homo sapiens

<400> 148
acataatcct cataatggtt ggggcagcta taatttacta caagaatcag atgtttcaca 60
tctagacctc gggcagcaac agaggtagcc acaagaagtt tgcaggtccc attcttaaag 120
tcatttatga tgctatctct gtcatattga tcaaatggcc tccatgaaga gacatgcaag 180
gataagatgc tctcattaaa tccttaagaa gaccatcagc atgttcctgc ttatccacaa 240
atataatgac agatcctgac tcttgataat ggcctagaag ctcaagtaac ttcaagaatt 300
tcttttcttc ttcaatcaca atcacttgtt gctccacatc tgagcaaacc acactcctgc 360
ctccaacttg t 371

<210> 149
<211> 585
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 10, 30, 32, 527, 565
<223> n = A,T,C or G

<400> 149
cgaggtacan cactgctaaa tttgacactn anggaaaagc attcgtcaaa gagagcttaa 60
aatgcatcgc caacggggtc acctccaagg tcttcctcgc cattcggagg tgctccactt 120
tccaaaggat gattgctgag gtgcaggaag agtgctacag caagctgaat gtgtgcagca 180
tcgccaagcg gaaccctgaa gccatcactg aggtcgtcca gctgcccaat cacttctcca 240
acagatacta taacagactt gtccgaagcc tgctggaatg tgatgaagac acagtcagca 300
caatcagaga cagcctgatg gagaaaattg ggcctaacat ggccagcctc ttccacatcc 360
tgcagacaga ccactgtgcc caaacacacc cacgagctga cttcaacagg agacgcacca 420
atgagccgca gaagctgaaa gtcctcctca ggaacctccg aggtgaggag gactctccct 480
cccacatcaa acgcacatcc catgagagtg cataaccagg gagaggntat tcacaacctc 540
ccaaactagt atcattttag ggggngttga cacaccagtt ttgag 585

<210> 150
<211> 642
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 5, 525, 612, 627

<223> n = A,T,C or G

<400> 150
acttncgggt tcgacaatgc tgatccgcaa ttagaagaca ctggtaagct gtgttacact 60
gggcttcatt gaaatcttca aggatatagc cagctcctgc tcgaagctgg gattctgtat 120
actgcttgtt gaaaggagga atttccaaaa attcctcctc ttcttcactg cttcctgtag 180
gaccatctgg cagtttggag cggctggcca acttgtcact ggttgtggcc atggtaagga 240
gaaatgcgta gcccagaaac aaggtcttgt tgagaggcaa aggccctctc tgctcttcca 300
gggcagaggg ttcaccggtg ttgtctccac tctcacaggg gctcacaaac tctcctgccc 360
ctactgcacc aggttttact gtggcagact tgcgacctcg cttggcaggg gaccgttcct 420
cttcagaagt gataagtttt cttttgcctg agagaactcc catggaggca cgaggacttt 480
ctgtgatctt tcgggtaggg gttgtgctgc tactggaggc agtangggtg gctggggagc 540
tgacgttact gcgccgtttc cgcttccttc caccaaattg ctaagctgat atctgctgcc 600
tttgtaagaa gnggtactgc ttcatanggg ccaagcccat ac 642

<210> 151
<211> 322
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1, 171, 240
<223> n = A,T,C or G

<400> 151
nttggacaac atcttccccg ctatgctgga attacttcgg tgttctgcgg tggccatggt 60
gaacatctga tgaactgaaa ttccatcgga atgcacagga agatatagtt gatcttcaaa 120
aatgtccttt ccaggaccac catactgggg aagttctttc gggtgcctgc naatgggctg 180
caccctgggg ctgggcccga gctctagctc tgtcatgcca tcgccactga aatcggtttn 240
cagatgatta gtctcttcat gccccgtcca tttttcggtt tttctccagt gttcagaaat 300
tcaaatgatt aacttctggg aa 322

<210> 152
<211> 262
<212> DNA
<213> Homo sapiens

<400> 152
acaaagtctt ctctttgctt tttataattt taaagcaaat aacacattta actgtattta 60
agtctgtgca aataatcctt cagaagaaat atccaagatt ctgtttgcag aggtcatttt 120
gtctctcaaa gatgattaaa tgagtttgtc tttagaataa agtgctcctg tccagcagaa 180
ctcaaaaggc cttcaagctg ttcagtaagt gtagttcaga taagactccg tcatacgaat 240
tccagcttcc cgtgcccact gt 262

<210> 153
<211> 284
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 241, 264, 282
<223> n = A,T,C or G

<400> 153
ctcgggagta aaaggtgcca cttggtagca atgatattcc agaattaaat gggtttttgt 60
tgccatggag actgcattta tataaatgta gcctgtagct taagttaact aaacctaatg 120
ctgctgttaa aaacagttta ttttaatatt aaaatacagt tgattagcaa cagcggtgct 180
gtattttaag agacacttta ttggaagtgc aatcatagtt atttgttttc acaattttac 240
ngtgcattct aattactgat gggngcaatt acttttaatc gngg 284

<210> 154
<211> 531
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 525
<223> n = A,T,C or G

<400> 154
acccacccta aatttgaact cttatcaaga ggctgatgaa tctgaccatc aaataggata 60
ggatggacct ttttttgagt tcattgtata aacaaatttt ctgatttgga cttaattccc 120
aaaggattag gtctactcct gctcattcac tctttcaaag ctctgtccac tctaactttt 180
ctccagtgtc atagataggg aattgctcac tgcgtgccta gtctttcttc acttacctgg 240
cctctgatag aaacagttgc ccctctcatt tcataaggtc gaggacttgt gaccctggat 300
ggttctaaat ggaaaaagca ccgccagatt gtgaaacctg gcttcaacat cagcattctg 360
aaaatattca tcaccatgat gtctgagagt gttcggatga tgctgaacaa atgggaggaa 420
cacattgccc aaaactcacg tctggagctc tttcaacatg tctccctgat gaccctggac 480
agcatcatga agtgtgcctt cagccaccag ggcagcatcc agttngacag t 531

<210> 155
<211> 353
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 243
<223> n = A,T,C or G

<400> 155
tcttgacaag actgagagag ttacatgttg ggaaaaaaaa agaagcatta acttagtaga 60
actgaaccag gagcattaag ttctgaaatt ttgaatcatc tctgaaatga agcaggtgta 120
gcctgccctc tcatcaatcc gtctgggtgc cagaactcaa ggttcagtgg acacatcccc 180
ctgttagaga ccctcatggg ctaggacttt tcatctagga tagattcaag acctttacct 240
canaattatg taaactgtga ttgtgtttta gaaaaattat tatttgctaa aaccatttaa 300
gtctttgtat atgtgtaaat gatcacaaaa atgtatttta taaaatgttc tgt 353

<210> 156
<211> 169
<212> DNA
<213> Homo sapiens

<400> 156
agtttgttct actacatttg tggtccacta gttcactttg ctgtgttgat aagcgttacc 60

accaattgca ctttctatag cctcttttac aatgttgctc acttcatcaa caacaaaagc 120
agtctcctcc gcagcctggt agtcttccat ctttcctccg gcgcgtccc 169

<210> 157
<211> 402
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 147
<223> n = A,T,C or G

<400> 157
gttaactacc cgctccgaga cgggattgat gacgagtcct atgaggccat tttcaagccg 60
gtcatgtcca aagtaatgga gatgttccag cctagtgcgg tggtcttaca gtgtggctca 120
gactccctat ctggggatcg gttaggntgc tttaatctac tatcaaagga cacgccaagt 180
gtgtggaatt tgtcaagagc tttaacctgc ctatgctgat gctgggaggc ggtggttaca 240
ccattcgtaa cgttgcccgg tgctggacat atgagacagc tgtggccctg gatacggaga 300
tccctaatga gcttccatac aatgactact ttgaatactt tggaccagat ttcaagctcc 360
acatcagtcc ttccaacatg actaaccaga acacgaatga gt 402

<210> 158
<211> 546
<212> DNA
<213> Homo sapiens

<400> 158
actttgggct ccagacttca ctgtccttag gcattgaaac catcacctgg tttgcattct 60
tcatgactga ggttaactta aaacaaaaat ggtaggaaag ctttcctatg cttcgggtaa 120
gagacaaatt tgcttttgta gaattggtgg ctgagaaagg cagacagggc ctgattaaag 180
aagacatttg tcaccactag ccaccaagtt aagttgtgga acccaaaggt gacggccatg 240
gaaacgtaga tcatcagctc tgctaagtag ttaggggaag aaacatattc aaaccagtct 300
ccaaatggat cctgtggtta cagtgaatga ccactcctgc tttatttttc ctgagattgc 360
cgagaataac atggcactta tactgatggg cagatgacca gatgaacatc atcatcccaa 420
gaatatggaa ccaccgtgct tgcatcaata gatttttccc tgttatgtag gcattcctgc 480
catccattgg cacttggctc agcacagtta ggccaacaag gacataatag acaagtccaa 540
aacagt 546

<210> 159
<211> 145
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 63, 82, 100, 118, 120, 131, 138
<223> n = A,T,C or G

<400> 159
acttttgcta taagtttcct aaaaatattt aatacttttt tttttcaatt taaattaaat 60
ctnttgatga acagggggg gntggcaaaa tttccaagcn ctggactgga attttganan 120
aggcatttac ngaccctnat aactt 145

<210> 160
<211> 405
<212> DNA
<213> Homo sapiens

<400> 160
tgtaaatcgc tgtttggatt tcctgatttt ataacagggc ggctggttaa tatctcacac 60
agtttaaaaa atcagcccct aatttctcca tgtttacact tcaatctgca ggcttcttaa 120
agtgacagta tcccttaacc tgccaccagt gtccccctc cggcccccgt cttgtaaaaa 180
ggggaggaga attagccaaa cactgtaagc ttttaagaaa aacaaagttt taaacgaaat 240
actgctctgt ccagaggctt taaaactggt gcaattacag caaaaaggga ttctgtagct 300
ttaacttgta aaccacatct tttttgcact ttttttataa gcaaaaacgt gccgtttaaa 360
ccactggatc tatctaaatg ccgatttgag ttcgcgacac tatgt 405

<210> 161
<211> 443
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 33, 49
<223> n = A,T,C or G

<400> 161
tttgctttta atgaaggaca agggattaag acncatagag actggccana caaatgggaa 60
accgaccaga ccagcccatg accaaaatat cacaggcaga ccacccacaa atgcagaggc 120
ctcagagtcc acagtgggcg gttggaaccc agggccccag ggaatctttc agctgcattc 180
cggctgtgat cggcgggcaa caggtagagg tgctggaggg ggctgagtcg tgattttcgg 240
tgtctgtcat attcgatcaa gtgtgtcata gagcttcctg tttcatctcc cagttattca 300
aggagaggct ggtggctcca ccttcccagg aactgtgctg tgaagatctg aagacaggca 360
cgggctcagg caccgcttgt ctggaatgtc aatttgaaac ttaaaaagca gcgaccatcc 420
agtcatttat ttccctccat tcc 443

<210> 162
<211> 228
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 97, 147, 162, 174, 186, 213, 218
<223> n = A,T,C or G

<400> 162
tcgttatcaa aatggaagac accaaaccat tactggcttc taagctgaca gaaaaggagg 60
aagaaatcgt ggactagtgg agtaaatttt atgcttnctc aggggaacat gaaaaatgcg 120
gacagtatat tcagaaaggc tattccnagc tcaagatata tnattgtgaa ctanaaaata 180
tagcanaatt tgagggcctg acagacttct canatacntt caagttgt 228

<210> 163
<211> 580
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 225, 250, 364
<223> n = A,T,C or G

<400> 163
acccaaggct acacatcctt ctgtgaaaca gtctcacgga gactctcaga atcccaagaa 60
ttttcttcaa ccttcttttg ttttgattct gaagggaaca tctgatctgc tctcaatgtt 120
tgttcattct tcaattccaa ggctttattt ggaacagact ttgcatttca atggcaggct 180
cgaaggcaga tggcttctcg ggaggctctg ctttgaaagt ttgcntgtcc atcaattcta 240
aggctttagn tggaatagaa actttcattc tgcagggagc cttcagaaaa ccatcattat 300
caggagactc ttctaatttt ccatttattt tatctatttc tttttgatgc gcagccttgg 360
gtanacacac atccttctgt gaaacagtct cacagagact ctcagaatcc caagaacttt 420
cttcatagtc cttttgtttg gattctgatg ggagtatctc atctgctctc aatgtttgtt 480
cattcttcaa ttccaaggct ttatttggaa cagacttttg catttcaatg gcaggctcga 540
aggcagatgg cttctcggga ggctctgctt tgaaaagttg 580

<210> 164
<211> 140
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 16, 79, 107, 109, 116, 125, 136, 140
<223> n = A,T,C or G

<400> 164
acttatatct tttggncttg ggcttctcaa agttcacgac agacataggc actctcacag 60
tatcaagccc atttaccgnc acctcacacc aatactcgcc ccaccgngng ataggntctg 120
ctggnaactt taatgnatgn 140

<210> 165
<211> 370
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 156, 157, 227, 232, 260, 283, 290, 299, 304, 310, 331, 338,
346, 353
<223> n = A,T,C or G

<400> 165
acatggagcc actgccacca gtggtgatgg aaagcactgc cttcttactc cggaagggtc 60
ctttgtcata catggcagcg taagtgtaag caaactctcc tatgaacact cgctcaaacc 120
agcctttcag aatggcaggg actccaaacc actgcnnggg ggaactggaa tatcacaagg 180
tctgcggctt ccagcttctt ttgttcagcc acaatatctg ggctcanatg gncttcttta 240
taagccagaa cagactcggn aggatactga aagttcgcag ggnccttcan tttacctgng 300
atgncctttn tggaaatgat gggattgaag ntcatggnat aaaggnccga ctncaccacc 360
tccattcttt 370

<210> 166

<211> 258
<212> DNA
<213> Homo sapiens

<400> 166
gtcaaaagtc atgattttta tcttagttct tcattactgc attgaaaagg aaaacctgtc 60
tgagaaaatg cctgacagtt taatttaaaa ctatggtgta agtctttgac aagaaaaaaa 120
aacaaacaaa cacttctttc catcagtaac actggcaatc ttcctgttaa ccactctcct 180
tagggatggt atctgaaaca acaatggtca ccctcttgag attcgtttta agtgtaattc 240
cataatgagc agaggtgt 258

<210> 167
<211> 345
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 44, 106, 113, 115, 133, 147, 149, 181, 186, 188, 229, 230,
242, 277, 291, 315, 317, 335, 337
<223> n = A,T,C or G

<400> 167
ggtcagccaa acacccagga tctctgtaaa actgaagaac aggncaatgc caccaacaaa 60
tctcaaaacc tctccagcat attctcctat gattggagca catggngagc acnantggtc 120
acttttaaca canctagcca gacaggngnc atttgggtta acacttcgga acccacagca 180
ntttanantt ctctggatgt catttcgagc acttgtattt attggtcann tttctgtatc 240
tngcgcttgg ttagccctga accaggagca acagggncag cttctggagg ntggttggaa 300
caatacggca agtgntngaa atgacatcca acctncngaa atgac 345

<210> 168
<211> 61
<212> DNA
<213> Homo sapiens

<400> 168
gatagtgtgg tttatggact gaggtcaaaa tctaagaagt ttcgcagacc tgacatccag 60
t 61

<210> 169
<211> 344
<212> DNA
<213> Homo sapiens

<400> 169
acattggtgc tataaatata aatgctactt atgaagcatg aaattaagct tctttttttct 60
tcaagttttt tctcttgtct agcaatctgt taggcttctg aaccaagacc aaatgtttac 120
gttcctctgc tgcataccaa cgttactcca aacaataaaa aatctatcat ttctgctctg 180
tgctgaggaa tggaaaatga aacccccacc ccctgacccc taggactata cagtggaaac 240
tgttcattgc tgatgaatgc agcagtcacc aaaaaataca cccaatcttc cagataacct 300
cagtgcactt taggaaatca aaaattacct ggaagcaatt tagt 344

<210> 170
<211> 114

<212> DNA
<213> Homo sapiens

<400> 170
agcagtgtgt cctccatgaa taaacaggag ttctggaggc ccatcttctg catcttctgc 60
tgattgttct tccccaattt tacttaaatc ccacacattc aggcggcggt cagt 114

<210> 171
<211> 150
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 79, 107
<223> n = A,T,C or G

<400> 171
actgagagca tttataatct gaccaaattc ataggcatta ttaggcttgg ctatcggaag 60
tttctcaggg tcttctggng acctgctgct tttgcctccc ttctcanaag caaggcatcc 120
catggagacc tcccctgcag ggcttccagg 150

<210> 172
<211> 435
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 406
<223> n = A,T,C or G

<400> 172
atttgttttc cactgcctca cactagtgag ctgtgccaag tagtagtgtg acacctgtgt 60
tgtcatttcc cacatcacgt aagagcttcc aaggaaagcc aaatcccaga tgagtctcag 120
agagggatca atatgtccat gattatcttc tggtttaggt ctacagtcaa tgtgatggtg 180
gtctttgctt cccagtctgc cagaatatct ttgtgcttct ctaatcattg gctttaaagc 240
taatcaatgt gttggcagca tctctgtcac tcttgtttaa cacgtgaaga aatcaggtag 300
atttttttct gtggcattgt tttcggacct aaaatcaggt atgctgacta tttccaaggg 360
gtttttcagt tgcttcattt gcttgtaaag cagggaatcc tcttgntgct tttctttttc 420
tcgatgagcc cgtgt 435

<210> 173
<211> 622
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 5
<223> n = A,T,C or G

<400> 173
actgntttcc cccaagtcca tgacatgtat acataattaa tggtttgcct ccttgattgt 60

tttctccaac atccagacat agaggctgac caacgctttt aatgtatcca gatataacag 120
gattaaggtc tggcacatac acctctggat aaatgttgtt cagataccat gtaaaatttt 180
tacactgaag gcggtgtttt atttcaaatc tttttgaaag atcaccaaat gctttttgtt 240
taacaatttt tgctgcatct gtatttctcc tataaaatat ttccttgtat tcatccatcc 300
agacttctgc aaggcgaact tggtttctag caatcacctg agtgcctttt ggaaagctat 360
gagggctttt gctgcgaaaa acatgtccaa caacagagca aggcataatc tccaactgcc 420
caccacattg ccatactctg aaagacattt ctatattttc acctccccag atttccattt 480
cttcatcata gcttccaata tactcaaaat attcttttga tatggaaaaa agtcctcctg 540
caaaagtggg tgttttaatt gggtagggtt catctttcct tctttgcttc tcatgatcag 600
gaagcgactt ccacccaatg aa 622

<210> 174
<211> 362
<212> DNA
<213> Homo sapiens

<400> 174
acggtgcagt tgacccactg ttggctctcc ttgcagttcc tgatatgtca tctttagcat 60
gtggctactt acgtaatctt acctggacac tttctaatct ttgccgcaac aagaatcctg 120
caccccccgat agatgctgtt gagcagattc ttcctacctt agttcagctc ctgcatcatg 180
atgatccaga agtgttagca gatacctgct gggctatttc ctaccttact gatggtccaa 240
atgaacgaat tggcatggtg gtgaaaacag gagttgtgcc ccaacttgtg aagcttctag 300
gagcttctga attgccaatt gtgactcctg ccctaagagc catagggaat attgtcactg 360
gt 362

<210> 175
<211> 486
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 5, 7
<223> n = A,T,C or G

<400> 175
acagntnctc tactacactc agcctcttat gtgccaagtt tttctttaag caatgagaaa 60
ttgctcatgt tcttcatctt ctcaaatcat cagaggccga agaaaaacac tttggctgtg 120
tctaaaactt gacacagtca atagaatgaa gaaaattaga gtagttatgt gattatttca 180
gctcttgacc tgtcccctct ggctgcctct gagtctgaat ctcccaaaga gagaaaccaa 240
tttctaagag gactggattg cagaagactc ggggacaaca tttgatccaa gatcttaaat 300
gttatattga taaccatgct cagcaatgag ctattagatt cattttggga aatctccata 360
atttcaattt gtaaactttg ttaagacctg tctacattgt tatatgtgtg tgacttgagt 420
aatgttatca acgtttttgt aaatatttac tatgtttttc tattagctaa attccaacaa 480
ttttgt 486

<210> 176
<211> 461
<212> DNA
<213> Homo sapiens

<400> 176
accctggcca ctcctttcct tttggctggc caatgtctcc tctgtaggct ccagaaggct 60
ctcagggatg caggcggcct cctgcagggt tgagttgcaa tgggaacaaa gacagctgtg 120

gtcccatagc accctcatct ggtgacatcc tgctactgac agtcaaaaga agccttccca 180
gatgaaattt tagtcctctg cgcagccatg ctcttcttcc agcaaaagag ccatgtgcag 240
tcgggtctgc tccccatggg ggctttgatg tgggcccagc agtggatcag ccttccagac 300
acgctcaact ctgcacactc ttcctgccgc ctcaggcttt ccaggaccct cccgagcctt 360
atcagagtcc ttaccctcag ggctactgat accttgctgg gtgaccttgg acagattcac 420
ttacctggac tcagtttcat aatatgaaaa tgatagggtt g 461

<210> 177
<211> 234
<212> DNA
<213> Homo sapiens

<400> 177
acacattttg taattacctt ttttgttgtt ttgtagcaac catttgtaaa acattccaaa 60
taattccaca gtcctgaagc agcaatcgaa tccctttctc acttttggaa ggtgactttt 120
caccttaatg catattcccc tctccataga ggagaggaaa aggtgtaggc ctgccttacc 180
gagagccaaa cagagcccag ggagactccg ctgtgggaaa cctcattgtt ctgt 234

<210> 178
<211> 657
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 10, 38, 42, 56, 58, 71, 77, 109
<223> n = A,T,C or G

<400> 178
gagctcggan ccctagtaac ggccgccagg gtgctggnat gngcccttgc gagcgngncg 60
cccgggcagg nactttnatc ccccctcatc ttcctgtagc tcatttgtnt ctctcatttt 120
ttggcatatt tttcaagtca cacttaaaaa ctcttccatg tattcacttc tcatcacttg 180
gtctacatgc cgaacctaag gtcaggattc caaaaagatg agtatcctct caaacgcctc 240
ctaagcctct ggtatacatg actttggctg tgcacttcat ttagacttca ccttttttgtt 300
tgctgttgtt ttttacacta gattcctttg tcttcattaa agataatgaa agattcacat 360
cacagtgcag ctcttcgctt tgtcctttcg taagtccgta gcaactgccg agagttctgg 420
tctgctaggc atgtgtgaaa tccgctttgt ggctctctgt gatttgttcc gcttaacgtt 480
tttatttgtc ttatttacac atgccaaggt ggcaacgtga aaaatgtctc tgacgctatt 540
ttccgactgt aaagctgagc attcgatata agtagctgct ccaatctgtt tggccatact 600
tgccccctgg tcataggaca ctggcgtctg cctgtgattg gagagctcta ctaatgt 657

<210> 179
<211> 182
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 7
<223> n = A,T,C or G

<400> 179
acaaaanctt ttaaatttta tattattttg aaactttgct ttgggtttgt ggcaccctgg 60
ccacccccatc tggctgtgac agcctctgca gtccgtgggc tggcagtttg ttgatctttt 120

aagtttcctt ccctacccag tccccatttt ctggtaaggt ttctaggagg tctgttaggt 180
gt 182

<210> 180
<211> 525
<212> DNA
<213> Homo sapiens

<400> 180
acacgctttt ggccccgacc aatgaggcct tcgagaagat ccctagtgag actttgaacc 60
gtatcctggg cgacccagaa gccctgagag acctgctgaa caaccacatc ttgaagtcag 120
ctatgtgtgc tgaagccatc gttgcggggc tgtctgtaga gaccctggag ggcatgacac 180
tggaggtggg ctgcagcggg gacatgctca ctatcaacgg gaaggcgatc atctccaata 240
aagacatcct agccaccaac ggggtgatcc actacattga tgagctactc atcccagact 300
cagccaagac actatttgaa ttggctgcag agtctgatgt gtccacagcc attgaccttt 360
tcagacaagc cggcctcggc aatcatctct ctggaagtga gcggttgacc ctcctggctc 420
ccctgaattc tgtattcaaa gatggaaccc ctccaattga tgcccataca aggaatttgc 480
ttcggaacca cataattaaa gaccagctgg cctctaagta tctgt 525

<210> 181
<211> 444
<212> DNA
<213> Homo sapiens

<400> 181
acaccacaat gtgcatcaag gagacgtgcc gattgattcc tgcagtcccg tccatttcca 60
gagatctcag caagccactt accttcccag atggatgcac attgcctgca gggatcaccg 120
tggttcttag tatttggggt cttcaccaca atcctgctgt ctggaaaaac ccaaaggtct 180
ctgacccctt gaggttctct caggagaatt ctgatcagag acacccctat gcctacttac 240
cattctcagc tggatcaagg aactgcattg ggcaggagtt tgccatgatt gagttaaagg 300
taaccattgc cttgattctg ctccacttca gagtgactcc agaccccacc aggcctctta 360
ctttccccaa ccattttatc ctcaagccca agaatgggat gtatttgcac ctgaagaaac 420
tctctgaatg ttagatctca gggt 444

<210> 182
<211> 441
<212> DNA
<213> Homo sapiens

<400> 182
acaaccttta ttgcttctcc agcattttcc agaagaatgg tgtcattaga gggccacagg 60
ggatggggga gtaaaaaata acataaacga actgaacaga aatgcaggag ggtggcaaga 120
ggggccgaga ttgggtgttc agggcagaga ggtggaagac caggggcagt cagtgcttct 180
tagctttcag ccaccagagt ggagaattcg tcaaccccaa ttttgccgtc cccatctttg 240
tctccagcag ccatcagcat cttggtttct ttagcagaca ggtctctggc atctggggag 300
aagcctttta ggatgaatcc cagctcatcc tcctcgatga agccactttg tccttgtcca 360
gcatgtgaaa caccttcttc acatcatccg cactcttttt cttcaggccg accatttgga 420
agaacttttt gtggtcgaag g 441

<210> 183
<211> 339
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 4, 10, 58, 67, 168, 210, 226, 228, 232, 238, 239, 289, 292,
297, 302, 304, 323
<223> n = A,T,C or G

<400> 183
tgtntcatcn taaggggatt gggctctaga tctgtcgacg gcgcattgag gatttgcnat 60
cggttangtg gtccgcgagt catgaatttt tgctctggag cgttattgtt tgtgaagttt 120
atccaggaga gaactatgat tgtgtcgatg cgtttactgc aggaagantc acggtctcag 180
tcacggaggt gtaagggtgg actgactgan tgagacaagg gatatntngt tnttatannc 240
ttgtgatgaa cctgcctacc gtttatgtct ctttgctaat gggctctcng tnctgtnatt 300
cncncaagct gcgggggctt ccncggttct gggctctga 339

<210> 184
<211> 490
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 78, 82, 109, 126, 129, 133, 159, 193, 195, 235, 244, 245,
284, 292, 296, 318, 320, 372, 389, 391, 397, 418, 437, 455,
468, 483, 488
<223> n = A,T,C or G

<400> 184
atatagcaag cttgtacgac cgacacatac ggcgcattgt gctggattgc ttatcttgtc 60
gcgcgacgtc tatataancg anactacata gtctcggaaa tccactcant ttcaagttcc 120
caaaanacng ganaaaaacc catgccttat ttaactaanc atcagctcgc ttctcccttct 180
gtaaccgcgc ttntngctcc cagcctatag aagggtaaaa cccacactcg tgcgncagtc 240
atcnnataac tgattcgccc gggtactgcc gggcggcgct cganaccaat tngcanaatt 300
cacacattgc ggcgctcnan aagctctaga aggccaatcg ccatattgat ctatacatta 360
tggccgtcgt tnacacgtcg tgacgggana ncctggngta ccattaatcg ctgcacantc 420
ccttcgcagc tggggtntac aaaagccgcc catcnctcca cgttgcgncc gatggcaagg 480
acncccctnat 490

<210> 185
<211> 368
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 3, 4, 6, 13, 41, 93, 145, 159, 160, 165, 243, 302, 313, 327,
333, 350, 355
<223> n = A,T,C or G

<400> 185
ctnnanatag cangcttgta cgaccgacac aatacggcca ntgtgctgga ttcgcttcag 60
cgccgcccgg gcagtaccgg cgctcatcta tcngatgatg gcgcaccaat gtggggtttt 120
aacctttta tatggctggg gacanaaagc gcggttacnn aaccnataac gagctgatgg 180
tcatttaaaa atgcttgggg ttttcccggt cttttgggga attgaaactg agtgggactt 240
canaaactgt gctactttcg cttatctaag tactcggccg caacacctag ccgaatccgc 300

anatatcatc acnctgggcg gcgtcancat gcntctaaag ggccaattcn cctanatgag 360
tcttatac 368

<210> 186
<211> 214
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1, 37, 38, 59, 90, 98, 105, 107, 113, 181, 183, 192
<223> n = A,T,C or G

<400> 186
ngggagatcg cagcttgtac gactcgtcat ataacgnnca atgtgctgga tcgcttcanc 60
gccgccggcg gtctaatctg gttcggattn tgtgtgtntt gtctntntta canggtgcta 120
tccccttctt cctcctcctc tgccatcctc atcctttatc tccttttttgg acaagtgtca 180
nancagacag angcagggtg gtggcaccgt tgaa 214

<210> 187
<211> 630
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 39, 63, 70, 111, 116, 199, 205, 209, 268, 277, 442, 448,
492, 511, 514, 520, 545, 546, 555, 596, 608, 611, 620
<223> n = A,T,C or G

<400> 187
cagctgggac gagtcgatca tatacggcgc atgtgttgna tcgctatcgt gtccggcgag 60
tanttattan attactgtta tttctgctcc tactggatat gatctcttga nggcangtct 120
gtgtcgtctg gtcacaccat gttctcaggc tgggcaaata ccttcctata atagtttatg 180
gataatgaat gacgactang tctanaaana cgctagctaa ataacacact cagggaaaga 240
gtcttaaata ttgtgaaggt gtttttanta tacaacnttt gtttacataa taggaaataa 300
tttttagact tttaaacaga cacttgagcc agatttgtta atgttaccat ctatagtgtc 360
ttgaaaatat tcctcttagt ttccaatatg aatgaatcta aaatccatct tttcaattat 420
gcccaggccc gtggtcaatg cnccctcnac acttcattaa cggattatac cttgggaaac 480
cataatctgg cntaggacga atcgcctggc ncangctaan aactgccctg tattgagggg 540
ttatnnctga ttgcngaggt gcctctccag gtccccaaag ggtcgtactg ttgaanctgg 600
ctctaatntt ntcttgcctn acaggtctcc 630

<210> 188
<211> 441
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 2, 3, 8, 12, 25, 31, 34, 43, 74, 76, 105, 106, 122, 158,
204, 205, 224, 225, 230, 236, 260, 261, 270, 278, 288, 289,
297, 335, 376, 388, 397, 398, 415, 427, 432, 438
<223> n = A,T,C or G

<400> 188
cnngcaanac anggtcggat tccgntgagg naanaattcc ctnatagggc tcgcccccta 60
ttcaccaaac caancngaaa ctcttgcggt caaatctaag ctatnncaca accccactct 120
gnagggtatg cgccccgccc ctgcaatgaa atcaatanca tatttggaga cagagagata 180
gagagagaga ggttcctggc cttnnctatt ctgctcttac ttgnnagatn tcaganatag 240
aaaaacctat cctaggtccn nccaatgatn gcggcttncg aatcccgnng tggccantcc 300
ccggatcgga ctaaatcaaa gaagatcctc cgtcntcctg ttcctccaca ctggagtccc 360
attgtatgca tgggtntttc actggctnat cataccnnag gatctgtcca ccttnaactc 420
ttctctngga antccctncc c 441

<210> 189
<211> 637
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 5, 24, 36, 45, 58, 113, 119, 147, 193, 196, 227, 330, 347,
387, 447, 450, 458, 460, 487, 489, 502, 518, 526, 535, 538,
546, 558, 560, 613, 622, 633
<223> n = A,T,C or G

<400> 189
agggngtata tacccacttg tacnactcga tcatanacgc gcatntctga atcgcttnct 60
ggccgcgatg tactgtgggc acttaagcac tgagtactgt ttgcgtcatg ccnggtcana 120
agatgctgct gcaaagggac tccaacnaaa tacactgtct tcaacaggag ttaacacctc 180
acacttggtg ganaanagaa ctcactggtg gtgatgcaca cgactgnatc catcaagtgc 240
gtttgcctgt tgactgctaa ccaaggctct ggcagtacct gcccgggcgg cgctcgaaac 300
caaatctgca aatatcatca cactggcggn cgctcagcat catctanaag gccatcgcct 360
atagtgagtc tatacatcat ggccgcnttt acactcctac tggaaaacct gcgtaccact 420
taatcgcttc acacatcccc tttcgcngtn gcttatancn aaaagcccac gatgcctcca 480
cattgcncnc tgatggcatg anccccttac gcgcatancc gcggtntgtg taccncangt 540
accgtnctgc acgctacncn tcttccttct cctcttcccc ttcccgttcc tcaccattcg 600
gggccttagg tcnatatctc gnccacccaa atntagg 637

<210> 190
<211> 653
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 29, 59, 112, 129, 134, 143, 157, 177, 180, 203, 247, 276,
306, 315, 320, 327, 334, 337, 363, 421, 424, 514, 523, 543,
571, 591, 593, 599, 610, 612, 618, 634, 637, 651, 652
<223> n = A,T,C or G

<400> 190
aggggtata tacccacttg tacgactgna tcatatacgc gcatgtctgg aatcgcttnc 60
gtggctgcca tgtattgaca ctacttctaa gaactacaaa agtgatactg angatacatt 120
acacagaang gctnacattc tcncagatcc tcatttntca tgatatgtgg acatcangan 180
cacgtggata agtgtatcta aanaatggct ttcaaaatat ttccacttta ttaaggtttg 240
acatganatt cataaaatgt cttaatacta tttctnaaaa taacatctaa tcggaaacta 300

tgcctnaact gcacnttttn tgtgtanata atcntanttg tacgcccggc ggcgccaaag 360
ccnaatctgc gattcctcac ctggcgccgc tcaacatcat ctaaaggcca atcgcctata 420
ntantctata catcctggcc gcgtttacac gtctaatggg aaaccggcgt accacttatc 480
gcttgcagca ctccccttcc cactgggtta tacnaaagcc gcncgatgcc tcccacattc 540
canctgatgc aatgacccct gttcgcctta ncccgcggtt tgtgtaccca ntnaccacnt 600
cagcgctgcn cntcttcntt ctcctcttct gccnttncgt tccctcactc nng 653

<210> 191
<211> 663
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 2, 5, 21, 59, 104, 113, 234, 256, 259, 264, 284, 290, 364,
418, 427, 433, 444, 456, 466, 525, 547, 553, 562, 564, 581,
613, 617, 640, 644, 661
<223> n = A,T,C or G

<400> 191
anggngtata tacccactgt ncgactcgat catatacgcg catgtcggat cggctccanc 60
gcgccggcat gtactatatc tacatcaact gtattatcat ttanatattg atnaaagaca 120
aaatcatact tccatctgct cactgatgat aattactatg atacatgatc atgtaaacgt 180
atcaatataa caatggaaga tccctctgac tatgcaagcc taattttcca atcncatgca 240
ctctcatagc tcaaanatnt cacngacatc ctgatgaaac tatnatacan tttccacaca 300
aatcacttcg ctttagatct ctccattatt cttgcttttc ccccctaaca actacaaatc 360
ctcntgggat gggaagaata tatatcatct actaaaaata atatataatc ccctgcanat 420
ttgtggnaaa tcnggtgtct caanagccac aggagnacaa gggggnacca actaggactt 480
ttgtatgctt atctctgtac tcgcgcacac ctaagcgatt ctgcnattct ccctggcggc 540
gtcacanctc tanaggccat cncnatatga tctatacatc ntggcgtctt tacactctga 600
cggaaaccgg gtnccantta ccctggacca tcccttcgcn ctgntataca aagccccccga 660
ncc 663

<210> 192
<211> 361
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 2, 31, 45, 48, 57, 63, 84, 94, 108, 125, 143, 161, 162, 174,
178, 184, 200, 201, 219, 228, 232, 239, 250, 258, 260, 262,
272, 281, 283, 291, 304, 316, 325, 329, 331, 339, 342, 347,
349, 353
<223> n = A,T,C or G

<400> 192
antttttata tacccactgg tacaactcga ncctatacgg cgcanttncg gaatcanctt 60
cancggcgcc ggcatgtacc ggtnatcatc atcngatgat ggcgctcnaa tgtgggtttt 120
acctnttata cggctgagat canatcgcgt acataacaaa nncaactgat ggtnaatnta 180
aatncggttg ggttctcccn ntctgttggg gaacttgana ctgagtgnga cntccatana 240
cgtgctattn tcggctancn antcctcagc gnacacctat ngnagtgcgc naattcatcc 300
atgntggcct cgactnttcc aaaangccnt ncgcccacnt gntcgcnana cantctcggc 360
c 361

<210> 193
<211> 314
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 5, 7, 22, 101, 104, 232, 254, 282
<223> n = A,T,C or G

<400> 193
agggngnata taccaactgg tncgactcga tcctatacgc gcatttcgga ttcgcttcaa 60
cggcgccggc atgtaccaaa cctcaatccc aaccgtctca nttngacggg ctcagttctg 120
tcacagccac cccacatttc ttttgttttg tctgccactt caaaagaatt ccaaataaga 180
attctgctgc agctccgtac aaggatatgg gcagcacagc acacacagag tngtgctcct 240
cacacttctc tggnaatgtc tcgtgaatat ctcaacagtc angaagtggg gcgttatcaa 300
aaacaatcag ggcc 314

<210> 194
<211> 550
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 4, 6, 22, 51, 64, 96, 108, 134, 156, 220, 221, 223, 264,
273, 287, 302, 304, 314, 325, 336, 343, 358, 360, 361, 375,
390, 428, 430, 443, 444, 446, 456, 463, 468, 474, 492, 509,
522, 525, 530, 533, 540, 549, 550
<223> n = A,T,C or G

<400> 194
aggngngata tacccactgg tncgactcga tcctatacgc gcatgtcgga ncgctatgtg 60
gtcncgcaag tacctcttct gcagtgatgg tctgtntcct ctatgatnag tgatcgaata 120
atcatcgaat tcancgaaag ttattcgagt gatatntgtg gcttgtagaa tctatgctcc 180
atggtgtggt cactgtcaag attaacacag aatggaagan ncngcactgc ataaaagatg 240
ttgtcaaatt gggtgcgttg atcngatagc tcntcccaag aggtcantgg tgttcaggat 300
tncnacataa gatnttggat caccngacga ccagangata ccngtgcaaa ctgtgaancn 360
ngtaatctgc ctatncctgc cctctcggan gatccctcgg ggacgacgag atcattctgg 420
aaacagcnan tgatagtcca gtnnangatt gatgancgac ganacgcntg atanatgtct 480
gacgtgagat tnggatgtga atcttcccnt gtgtgacctg cnccntaccn aanggtgcgn 540
ctccactcnn 550

<210> 195
<211> 452
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1, 2, 8, 34, 41, 50, 55, 56, 93, 99, 113, 123, 132, 143,
183, 214, 237, 244, 245, 255, 272, 293, 299, 301, 312, 335,
345, 346, 359, 363, 371, 379, 384, 387, 406, 412, 413, 420,

422, 434, 441
<223> n = A,T,C or G

<400> 195
nngcgggnat gataccaact ggtacgaact cganctctat nacggcgctn tttcnngatc 60
tgctatgtgg tctcggcaat gtacattata acngggcana catataatct acntctgtct 120
ttntctcccc cngagagcgc aancatctcc aaatcgggtt ctgggtcatc caatggtctc 180
cantaatcac acaactcata tatatttatg gaangtgtct gtcatcgtcc ccacgangga 240
agtnncgtcg ctgtntgtct gtcactaggt gngtactctc cagtacttga aanctggtna 300
nggctgtctg tngtactggc cggcgccctc gaaancgaat ctgtnnatat catcacatng 360
cgncgcccga ncatcactna gggncanttc gcctatactg atcgtntgcg anncctgcgn 420
cncttacacg tcgnacggga naccggcctt cc 452

<210> 196
<211> 429
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 6, 7, 8, 21, 52, 103, 109, 201, 205, 222, 238, 277, 370,
400, 421
<223> n = A,T,C or G

<400> 196
gcgggnnnat gataccagct ngtacgactc gatcctataa cggcgcatgt gngtatcggc 60
tacgtgtctc ggcgatgtac atataacggg gcaacatata atnatacant ctgtcttttt 120
ctccccggga aacggcaacc atctccaata tcggtctggg tctccaatgg tctccaacta 180
aatcacacaa gtcaaatata nttanggaaa gtgtctgtct cntccccaga aggagtancg 240
ttagctgttg tctgtcatta ggttggtacc tccagtnaca tgaaaactgg tgagggtgtc 300
cttgtacaag ctctgcctca ccagatccta tactattagg gggcccacgg ttatctatct 360
taagggtctn aaaacctgga cttcatctgc tccggcggan gaatgtcccg cttacttacg 420
ntgttccac 429

<210> 197
<211> 471
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 14, 32, 38, 53, 57, 83, 100, 103, 115, 116, 124, 141, 145,
170, 192, 195, 207, 237, 300, 318, 326, 354, 361, 369, 377,
409, 411, 416, 452, 461
<223> n = A,T,C or G

<400> 197
atgatacgca gctngtacga gccgtcacta tnacggcnca ttgtgtggat tcngctntga 60
tcggcgcccg ggcatgtcca tcnagagcgc atcatgggan tgnactcccc atatnntgac 120
caangttcgc gcaaggagcc naganccgat actacctgag ctgtcgtctn gttatacacg 180
tttctggcca angancaact ccacatncaa caagttggtg ttgaaatgtt gtttatnagt 240
ccaccaaccg gccgctctgt cccttcccga tgatccgaag ataagcttcc tgtccggaan 300
acgaacggcg tggtgtgngg acatantgat atgtgcgggt caggaagtac tcgncgcaac 360
ncgcaagcna atctgcnata tcatcacctg gcggcgctcg agctgccana ngcccnttcg 420

cctatatgag tctatacatt cctggccgtc tnttacactc ngacgggaaa c 471

<210> 198
<211> 643
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 2, 5, 38, 55, 62, 98, 112, 125, 259, 295, 414, 436, 437,
462, 521, 563, 574, 575, 587, 601
<223> n = A,T,C or G

<400> 198
tngtncgacc gtcactatac gcccatgtgt ggatccgntc cacggcgccg ggcangtacg 60
anactatatt gatcctctga tattgaaagt tggtctanca ataaccttta angcaaatca 120
ctcantgagt tttgaccaga agtcaccaca tcatgaatca cagtctatgg caaatgatac 180
cagtgtctct aagtcctatg ctcaaggtaa gagcatgcta ttccgtttta catttactgg 240
aatttactgt tcattcatna ttaaaatctc tagttttcat cctcaactgt ctaanaccag 300
tgtgcacaga cttaagactc tgttctcctc attttctcca acagaaacat tctcagtgtc 360
tactgttcta aaagggaatt tccgaggtgg cacttctcgg aatatcgacc ctcnggctct 420
atcaggcgtt acttcnngca ctcgtcattt gggcttgttc anttgtctta tctgtccagt 480
cacttcattt taagaaaaca attgatcgct ggtcacatgt nattcattgg cagccggtgt 540
gactgctgag tctcgcgcac acnctagcaa tcgnnattct ccatggngcg tcactctcta 600
naggccatcc cctatatgat ctataatctg gcgtctttac act 643

<210> 199
<211> 292
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1, 6, 21, 39, 59, 87, 129, 165, 186, 223, 225, 231, 256,
257, 261, 268, 272, 279, 287
<223> n = A,T,C or G

<400> 199
ncggcnggag ttcgcagttg nacgaccgat cctatacgnc gcatttctga tccgctacnt 60
gtccggcgag tctatgctat ttatttntga ttaaatcaat attttctttc tgaatattaa 120
tcttatctnt acttttatac tattgaccta gctatatgta ttgancttt tgaactccta 180
tcagtntttt tcatgctatc gtatattttc cacttggtac ctntngctga ntcctagata 240
tcgtaaaaca tctctnnatc ntcacacnga gnccagggnt ctgtatngaa tt 292

<210> 200
<211> 275
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 24, 67, 75, 96, 135, 155, 162, 166, 173, 181, 192, 197, 204,
225, 230, 244, 245, 254
<223> n = A,T,C or G

<400> 200
atacgcaagc ttggtaccga gctnggatcc ctattaaccg gccgcaatat tctggaattc 60
tgcttancgt ggtcncggcc gaagtactat gctatnttac ttttttggga tataaaatca 120
atatatttct ttctnaagta tataaatctt atccncgtat cnttcnatac ctntctgaca 180
ntaagcttat angtatntga tctntgttga actcctatca agtgntttcn catgctatcg 240
tganntcttc cacnttggta ccttttacgc tgaat 275

<210> 201
<211> 284
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 3, 4, 5, 16, 23, 94, 116, 121, 135, 141, 168, 171, 173, 185,
196, 200, 212, 223, 224, 238, 239, 269, 271
<223> n = A,T,C or G

<400> 201
cgnnnatcca gtgtanaccg tcnttacgcg cattctgatc gttcacgccc gcgtctttat 60
atctatctcg actgattcac ctgtcattgt aaanaattcg tgtcagctgt ctaccnctta 120
nacatcatct aatcnaacta ncctgataaa tttcttcaat agggatanac ntntagtaca 180
tacgnttcca ttgagntacn tccgcggacc cncatcgcaa acnncatgcg gtcagtcnna 240
gcatcctcta tcttaatccg tccttaccnt ntgaacgctc cact 284

<210> 202
<211> 448
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 93, 117, 124, 143, 144, 153, 172, 175, 186, 197, 203, 207,
212, 258, 266, 269, 272, 280, 284, 287, 294, 299, 301, 309,
311, 314, 345, 347, 358, 367, 369, 372, 378, 386, 388, 390,
402, 415, 416, 432, 437, 439, 446
<223> n = A,T,C or G

<400> 202
atgatacgca agcttgtacg actcggatca tataacggcc gcaatgtgct ggaattccgc 60
ttcgacggac gccgggcatg tacttttata atnctactcc tcagaccttg catctcnacc 120
gctnggtcca gtttgtaaaa acnnacttcc gtngtgcagc cctggttctg ancantctct 180
atcacnctct atcctcncat ccncaanact anatcgcgtg aattcatatt tattcatttt 240
ccataatgat gggggaanga ctatcnctna tnatgcttan cacnctngct gcanttcgnc 300
natctcgcna ngcntgaaac gattactctg tcgcgaaccc tctangntga attctgcnaa 360
atatctntna cnctggcngg cgctcnangn atgcctctcg anggccaatc cgccnngcat 420
gattctaatt anatccntng gtcccntt 448

<210> 203
<211> 321
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 7, 18, 29, 48, 52, 71, 88, 91, 104, 109, 131, 143, 196, 201,
213, 248, 254, 261, 287, 291, 298, 303
<223> n = A,T,C or G

<400> 203
gggtgcnaga tcgcagtngt acgaatcgnt catatacggc gcatgtgntg antcgctacg 60
tgtccggcga ngtaccatat aatcgaanta ncatagttct ggangcccnc tcattttcaa 120
tttcccaaaa nacgggaaaa ccnaagcctt atttaactaa ctatctgctc gcttctcgct 180
tctgtaccgc gctatntgct nccagcctat aanaagggta aaacccacac tcggtgcgtc 240
agtctccnat atantgagtc nccgggtact ggccgggcgg tcgttcnaaa ncaattcncg 300
aanttcacta ctggcggcgc c 321

<210> 204
<211> 369
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1, 5, 119, 137, 287, 289, 290, 326, 348, 355
<223> n = A,T,C or G

<400> 204
ntgtngtatg tacccagtgg tacgactcga tcctagtacg gcgcagtgtg ctgaatcgtt 60
acttgtcgcg gccaagtatc tataaagcaa actatcacag ttctgaaagt ccatctcant 120
ttcagttccc aaaagancgg gaaaacccaa gccttattaa actaacaatc agtcgctctc 180
gcttctgtac cgcgcttttg gcccccagcc tataaaaggg taaaacccac actcggtgcg 240
ccagtcatcg ataactgaat cgcccggtac tgcccgggcg gcgctcnann ccaaatctgc 300
agatatcaca cactggcggc gctcancatg ctctagaagg ccaattcncc tatantgatt 360
ctattacaa 369

<210> 205
<211> 2996
<212> DNA
<213> Homo sapiens

<400> 205
cagccaccgg agtggatgcc atctgcaccc accgccctga ccccacaggc cctgggctgg 60
acagagagca gctgtatttg gagctgagcc agctgaccca cagcatcact gagctgggcc 120
cctacaccct ggacagggac agtctctatg tcaatggttt cacacagcgg agctctgtgc 180
ccaccactag cattcctggg acccccacag tggacctggg aacatctggg actccagttt 240
ctaaacctgg tccctcggct gccagccctc tcctggtgct attcactctc aacttcacca 300
tcaccaacct gcggtatgag gagaacatgc agcaccctgg ctccaggaag ttcaacacca 360
cggagagggt ccttcagggc ctggtccctg ttcaagagca ccagtgttgg ccctctgtac 420
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gccatctgca cccaccaccc tgaccccaaa agccctaggc tggacagaga gcagctgtat 540
tgggagctga gccagctgac ccacaatatc actgagctgg gcccctatgc cctggacaac 600
gacagcctct ttgtcaatgg tttcactcat cggagctctg tgtccaccac cagcactcct 660
gggaccccca cagtgtatct gggagcatct aagactccag cctcgatatt tggcccttca 720
gctgccagcc atctcctgat actattcacc ctcaacttca ccatcactaa cctgcggtat 780
gaggagaaca tgtggcctgg ctccaggaag ttcaacacta cagagagggt ccttcagggc 840
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accttgctca ggccagagaa agatggggaa gccaccggag tggatgccat ctgcacccac 960
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ggctccctca agttcaacat cacagacaac gtcatgaagc acctgctcag tcctttgttc 1260
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aagaacggtg ctgagacacg ggtggacctc ctctgcacct acctgcagcc cctcagcggc 1380
ccaggtctgc ctatcaagca ggtgttccat gagctgagcc agcagaccca tggcatcacc 1440
cggctgggcc cctactctct ggacaaagac agcctctacc ttaacggtta caatgaacct 1500
ggtccagatg agcctcctac aactcccaag ccagccacca cattcctgcc tcctctgtca 1560
gaagccacaa cagccatggg gtaccacctg aagaccctca cactcaactt caccatctcc 1620
aatctccagt attcaccaga tatgggcaag ggctcagcta cattcaactc caccgagggg 1680
gtccttcagc acctgctcag acccttgttc cagaagagca gcatgggccc cttctacttg 1740
ggttgccaac tgatctccct caggcctgag aaggatgggg cagccactgg tgtggacacc 1800
acctgcacct accaccctga ccctgtgggc cccgggctgg acatacagca gctttactgg 1860
gagctgagtc agctgaccca tggtgtcacc caactgggct tctatgtcct ggacagggat 1920
agcctcttca tcaatggcta tgcaccccag aatttatcaa tccggggcga gtaccagata 1980
aatttccaca ttgtcaactg gaacctcagt aatccagacc ccacatcctc agagtacatc 2040
accctgctga gggacatcca ggacaaggtc accacactct acaaaggcag tcaactacat 2100
gacacattcc gcttctgcct ggtcaccaac ttgacgatgg actccgtgtt ggtcactgtc 2160
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accctgaatg cctcattcca ttggctgggc tccacctacc agttggtgga catccatgtg 2280
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aattaccaga ggaacaaaag gaatattgag gatgcgctca accaactctt ccgaaacagc 2460
agcatcaaga gttatttttc tgactgtcaa gtttcaacat tcaggtctgt ccccaacagg 2520
caccacaccg gggtggactc cctgtgtaac ttctcgccac tggctcggag agtagacaga 2580
gttgccatct atgaggaatt tctgcggatg acccggaatg gtacccagct gcagaacttc 2640
accctggaca ggagcagtgt ccttgtggat gggtattttc ccaacagaaa tgagccctta 2700
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gatctgcaat gactggaact tgccggtgcc tggggtgcct ttcccccagc cagggtccaa 2940
agaagcttgg ctggggcaga aataaaccat attggtcgga cacaaaaaaa aaaaaa 2996

<210> 206
<211> 914
<212> PRT
<213> Homo sapiens

<400> 206
Met Ser Met Val Ser His Ser Gly Ala Leu Cys Pro Pro Leu Ala Phe
1 5 10 15
Leu Gly Pro Pro Gln Trp Thr Trp Glu His Leu Gly Leu Gln Phe Leu
20 25 30
Asn Leu Val Pro Arg Leu Pro Ala Leu Ser Trp Cys Tyr Ser Leu Ser
35 40 45
Thr Ser Pro Ser Pro Thr Cys Gly Met Arg Arg Thr Cys Ser Thr Leu
50 55 60
Ala Pro Gly Ser Ser Thr Pro Arg Arg Gly Ser Phe Arg Ala Trp Ser
65 70 75 80
Leu Phe Lys Ser Thr Ser Val Gly Pro Leu Tyr Ser Gly Cys Arg Leu
85 90 95

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Thr Leu Leu Arg Pro Glu Lys Asp Gly Thr Ala Thr Gly Val Asp Ala
            100                 105                 110
Ile Cys Thr His His Pro Asp Pro Lys Ser Pro Arg Leu Asp Arg Glu
        115                 120                 125
Gln Leu Tyr Trp Glu Leu Ser Gln Leu Thr His Asn Ile Thr Glu Leu
    130                 135                 140
Gly Pro Tyr Ala Leu Asp Asn Asp Ser Leu Phe Val Asn Gly Phe Thr
145                 150                 155                 160
His Arg Ser Ser Val Ser Thr Thr Ser Thr Pro Gly Thr Pro Thr Val
                165                 170                 175
Tyr Leu Gly Ala Ser Lys Thr Pro Ala Ser Ile Phe Gly Pro Ser Ala
            180                 185                 190
Ala Ser His Leu Leu Ile Leu Phe Thr Leu Asn Phe Thr Ile Thr Asn
        195                 200                 205
Leu Arg Tyr Glu Glu Asn Met Trp Pro Gly Ser Arg Lys Phe Asn Thr
    210                 215                 220
Thr Glu Arg Val Leu Gln Gly Leu Leu Arg Pro Leu Phe Lys Asn Thr
225                 230                 235                 240
Ser Val Gly Pro Leu Tyr Ser Gly Cys Arg Leu Thr Leu Leu Arg Pro
                245                 250                 255
Glu Lys Asp Gly Glu Ala Thr Gly Val Asp Ala Ile Cys Thr His Arg
            260                 265                 270
Pro Asp Pro Thr Gly Pro Gly Leu Asp Arg Glu Gln Leu Tyr Leu Glu
        275                 280                 285
Leu Ser Gln Leu Thr His Ser Ile Thr Glu Leu Gly Pro Tyr Thr Leu
    290                 295                 300
Asp Arg Asp Ser Leu Tyr Val Asn Gly Phe Thr His Arg Ser Ser Val
305                 310                 315                 320
Pro Thr Thr Ser Thr Gly Val Val Ser Glu Glu Pro Phe Thr Leu Asn
                325                 330                 335
Phe Thr Ile Asn Asn Leu Arg Tyr Met Ala Asp Met Gly Gln Pro Gly
            340                 345                 350
Ser Leu Lys Phe Asn Ile Thr Asp Asn Val Met Lys His Leu Leu Ser
        355                 360                 365
Pro Leu Phe Gln Arg Ser Ser Leu Gly Ala Arg Tyr Thr Gly Cys Arg
    370                 375                 380
Val Ile Ala Leu Arg Ser Val Lys Asn Gly Ala Glu Thr Arg Val Asp
385                 390                 395                 400
Leu Leu Cys Thr Tyr Leu Gln Pro Leu Ser Gly Pro Gly Leu Pro Ile
                405                 410                 415
Lys Gln Val Phe His Glu Leu Ser Gln Gln Thr His Gly Ile Thr Arg
            420                 425                 430
Leu Gly Pro Tyr Ser Leu Asp Lys Asp Ser Leu Tyr Leu Asn Gly Tyr
        435                 440                 445
Asn Glu Pro Gly Pro Asp Glu Pro Pro Thr Thr Pro Lys Pro Ala Thr
    450                 455                 460
Thr Phe Leu Pro Pro Leu Ser Glu Ala Thr Thr Ala Met Gly Tyr His
465                 470                 475                 480
Leu Lys Thr Leu Thr Leu Asn Phe Thr Ile Ser Asn Leu Gln Tyr Ser
                485                 490                 495
Pro Asp Met Gly Lys Gly Ser Ala Thr Phe Asn Ser Thr Glu Gly Val
            500                 505                 510
Leu Gln His Leu Leu Arg Pro Leu Phe Gln Lys Ser Ser Met Gly Pro
        515                 520                 525
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Phe Tyr Leu Gly Cys Gln Leu Ile Ser Leu Arg Pro Glu Lys Asp Gly
    530                 535                 540
Ala Ala Thr Gly Val Asp Thr Thr Cys Thr Tyr His Pro Asp Pro Val
545                 550                 555                 560
Gly Pro Gly Leu Asp Ile Gln Gln Leu Tyr Trp Glu Leu Ser Gln Leu
                565                 570                 575
Thr His Gly Val Thr Gln Leu Gly Phe Tyr Val Leu Asp Arg Asp Ser
            580                 585                 590
Leu Phe Ile Asn Gly Tyr Ala Pro Gln Asn Leu Ser Ile Arg Gly Glu
        595                 600                 605
Tyr Gln Ile Asn Phe His Ile Val Asn Trp Asn Leu Ser Asn Pro Asp
    610                 615                 620
Pro Thr Ser Ser Glu Tyr Ile Thr Leu Leu Arg Asp Ile Gln Asp Lys
625                 630                 635                 640
Val Thr Thr Leu Tyr Lys Gly Ser Gln Leu His Asp Thr Phe Arg Phe
                645                 650                 655
Cys Leu Val Thr Asn Leu Thr Met Asp Ser Val Leu Val Thr Val Lys
            660                 665                 670
Ala Leu Phe Ser Ser Asn Leu Asp Pro Ser Leu Val Glu Gln Val Phe
        675                 680                 685
Leu Asp Lys Thr Leu Asn Ala Ser Phe His Trp Leu Gly Ser Thr Tyr
    690                 695                 700
Gln Leu Val Asp Ile His Val Thr Glu Met Glu Ser Ser Val Tyr Gln
705                 710                 715                 720
Pro Thr Ser Ser Ser Ser Thr Gln His Phe Tyr Leu Asn Phe Thr Ile
                725                 730                 735
Thr Asn Leu Pro Tyr Ser Gln Asp Lys Ala Gln Pro Gly Thr Thr Asn
            740                 745                 750
Tyr Gln Arg Asn Lys Arg Asn Ile Glu Asp Ala Leu Asn Gln Leu Phe
        755                 760                 765
Arg Asn Ser Ser Ile Lys Ser Tyr Phe Ser Asp Cys Gln Val Ser Thr
    770                 775                 780
Phe Arg Ser Val Pro Asn Arg His His Thr Gly Val Asp Ser Leu Cys
785                 790                 795                 800
Asn Phe Ser Pro Leu Ala Arg Arg Val Asp Arg Val Ala Ile Tyr Glu
                805                 810                 815
Glu Phe Leu Arg Met Thr Arg Asn Gly Thr Gln Leu Gln Asn Phe Thr
            820                 825                 830
Leu Asp Arg Ser Ser Val Leu Val Asp Gly Tyr Phe Pro Asn Arg Asn
        835                 840                 845
Glu Pro Leu Thr Gly Asn Ser Asp Leu Pro Phe Trp Ala Val Ile Leu
    850                 855                 860
Ile Gly Leu Ala Gly Leu Leu Gly Leu Ile Thr Cys Leu Ile Cys Gly
865                 870                 875                 880
Val Leu Val Thr Thr Arg Arg Arg Lys Lys Glu Gly Glu Tyr Asn Val
                885                 890                 895
Gln Gln Gln Cys Pro Gly Tyr Tyr Gln Ser His Leu Asp Leu Glu Asp
            900                 905                 910
Leu Gln
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<210> 207
<211> 2627

<212> DNA
<213> Homo sapiens

<400> 207
ccacgcgtcc gcccacgcgt ccggaaggca gcggcagctc cactcagcca gtacccagat 60
acgctgggaa ccttccccag ccatggcttc cctggggcag atcctcttct ggagcataat 120
tagcatcatc attattctgg ctggagcaat tgcactcatc attggctttg gtatttcagg 180
gagacactcc atcacagtca ctactgtcgc ctcagctggg aacattgggg aggatggaat 240
cctgagctgc acttttgaac ctgacatcaa actttctgat atcgtgatac aatggctgaa 300
ggaaggtgtt ttaggcttgg tccatgagtt caaagaaggc aaagatgagc tgtcggagca 360
ggatgaaatg ttcagaggcc ggacagcagt gtttgctgat caagtgatag ttggcaatgc 420
ctctttgcgg ctgaaaaacg tgcaactcac agatgctggc acctacaaat gttatatcat 480
cacttctaaa ggcaagggga atgctaacct tgagtataaa actggagcct tcagcatgcc 540
ggaagtgaat gtggactata atgccagctc agagaccttg cggtgtgagg ctccccgatg 600
gttcccccag cccacagtgg tctgggcatc ccaagttgac cagggagcca acttctcgga 660
agtctccaat accagctttg agctgaactc tgagaatgtg accatgaagg ttgtgtctgt 720
gctctacaat gttacgatca acaacacata ctcctgtatg attgaaaatg acattgccaa 780
agcaacaggg gatatcaaag tgacagaatc ggagatcaaa aggcggagtc acctacagct 840
gctaaactca aaggcttctc tgtgtgtctc ttctttcttt gccatcagct gggcacttct 900
gcctctcagc ccttacctga tgctaaaata atgtgccttg gccacaaaaa agcatgcaaa 960
gtcattgtta caacagggat ctacagaact atttcaccac cagatatgac ctagttttat 1020
atttctggga ggaaatgaat tcatatctag aagtctggag tgagcaaaca agagcaagaa 1080
acaaaaagaa gccaaaagca gaaggctcca atatgaacaa gataaatcta tcttcaaaga 1140
catattagaa gttgggaaaa taattcatgt gaactagaca agtgtgttaa gagtgataag 1200
taaaatgcac gtggagacaa gtgcatcccc agatctcagg gacctccccc tgcctgtcac 1260
ctggggagtg agaggacagg atagtgcatg ttctttgtct ctgaattttt agttatatgt 1320
gctgtaatgt tgctctgagg aagcccctgg aaagtctatc ccaacatatc cacatcttat 1380
attccacaaa ttaagctgta gtatgtaccc taagacgctg ctaattgact gccacttcgc 1440
aactcagggg cggctgcatt ttagtaatgg gtcaaatgat tcacttttta tgatgcttcc 1500
aaaggtgcct tggcttctct tcccaactga caaatgccaa agttgagaaa aatgatcata 1560
attttagcat aaacagagca gtcggcgaca ccgatttttat aaataaactg agcaccttct 1620
ttttaaacaa acaaatgcgg gtttatttct cagatgatgt tcatccgtga atggtccagg 1680
gaaggacctt tcaccttgac tatatggcat tatgtcatca caagctctga ggcttctcct 1740
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cagctggggt gatttcgccc cccatctccg ggggaatgtc tgaagacaat tttggttacc 1860
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tgctgctcaa cctcctacca tgtacaggac gtctccccat tacaactacc caatccgaag 1980
tgtcaactgt gtcaggacta agaaaccctg gttttgagta gaaaagggcc tggaaagagg 2040
ggagccaaca aatctgtctg cttcctcaca ttagtcattg gcaaataagc attctgtctc 2100
tttggctgct gcctcagcac agagagccag aactctatcg ggcaccagga taacatctct 2160
cagtgaacag agttgacaag gcctatggga aatgcctgat gggattatct tcagcttgtt 2220
gagcttctaa gtttctttcc cttcattcta ccctgcaagc caagttctgt aagagaaatg 2280
cctgagttct agctcaggtt ttcttactct gaatttagat ctccagaccc ttcctggcca 2340
caattcaaat taaggcaaca aacatatacc ttccatgaag cacacacaga cttttgaaag 2400
caaggacaat gactgcttga attgaggcct tgaggaatga agctttgaag gaaaagaata 2460
ctttgtttcc agccccccttc ccacactctt catgtgttaa ccactgcctt cctggacctt 2520
ggagccacgg tgactgtatt acatgttgtt atagaaaact gattttagag ttctgatcgt 2580
tcaagagaat gattaaatat acatttccta caccaaaaaa aaaaaaa 2627

<210> 208
<211> 282
<212> PRT
<213> Homo sapiens

<400> 208
Met Ala Ser Leu Gly Gln Ile Leu Phe Trp Ser Ile Ile Ser Ile Ile
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Ile Ile Leu Ala Gly Ala Ile Ala Leu Ile Ile Gly Phe Gly Ile Ser
20 25 30
Gly Arg His Ser Ile Thr Val Thr Thr Val Ala Ser Ala Gly Asn Ile
35 40 45
Gly Glu Asp Gly Ile Leu Ser Cys Thr Phe Glu Pro Asp Ile Lys Leu
50 55 60
Ser Asp Ile Val Ile Gln Trp Leu Lys Glu Gly Val Leu Gly Leu Val
65 70 75 80
His Glu Phe Lys Glu Gly Lys Asp Glu Leu Ser Glu Gln Asp Glu Met
85 90 95
Phe Arg Gly Arg Thr Ala Val Phe Ala Asp Gln Val Ile Val Gly Asn
100 105 110
Ala Ser Leu Arg Leu Lys Asn Val Gln Leu Thr Asp Ala Gly Thr Tyr
115 120 125
Lys Cys Tyr Ile Ile Thr Ser Lys Gly Lys Gly Asn Ala Asn Leu Glu
130 135 140
Tyr Lys Thr Gly Ala Phe Ser Met Pro Glu Val Asn Val Asp Tyr Asn
145 150 155 160
Ala Ser Ser Glu Thr Leu Arg Cys Glu Ala Pro Arg Trp Phe Pro Gln
165 170 175
Pro Thr Val Val Trp Ala Ser Gln Val Asp Gln Gly Ala Asn Phe Ser
180 185 190
Glu Val Ser Asn Thr Ser Phe Glu Leu Asn Ser Glu Asn Val Thr Met
195 200 205
Lys Val Val Ser Val Leu Tyr Asn Val Thr Ile Asn Asn Thr Tyr Ser
210 215 220
Cys Met Ile Glu Asn Asp Ile Ala Lys Ala Thr Gly Asp Ile Lys Val
225 230 235 240
Thr Glu Ser Glu Ile Lys Arg Arg Ser His Leu Gln Leu Leu Asn Ser
245 250 255
Lys Ala Ser Leu Cys Val Ser Ser Phe Phe Ala Ile Ser Trp Ala Leu
260 265 270
Leu Pro Leu Ser Pro Tyr Leu Met Leu Lys
275 280

<210> 209
<211> 309
<212> PRT
<213> Homo sapiens

<400> 209
His Ala Ser Ala His Ala Ser Gly Arg Gln Arg Gln Leu His Ser Ala
1 5 10 15
Ser Thr Gln Ile Arg Trp Glu Pro Ser Pro Ala Met Ala Ser Leu Gly
20 25 30
Gln Ile Leu Phe Trp Ser Ile Ile Ser Ile Ile Ile Ile Leu Ala Gly
35 40 45
Ala Ile Ala Leu Ile Ile Gly Phe Gly Ile Ser Gly Arg His Ser Ile
50 55 60
Thr Val Thr Thr Val Ala Ser Ala Gly Asn Ile Gly Glu Asp Gly Ile

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65                  70                  75                  80
Leu Ser Cys Thr Phe Glu Pro Asp Ile Lys Leu Ser Asp Ile Val Ile
                85                  90                  95
Gln Trp Leu Lys Glu Gly Val Leu Gly Leu Val His Glu Phe Lys Glu
            100                 105                 110
Gly Lys Asp Glu Leu Ser Glu Gln Asp Glu Met Phe Arg Gly Arg Thr
        115                 120                 125
Ala Val Phe Ala Asp Gln Val Ile Val Gly Asn Ala Ser Leu Arg Leu
    130                 135                 140
Lys Asn Val Gln Leu Thr Asp Ala Gly Thr Tyr Lys Cys Tyr Ile Ile
145                 150                 155                 160
Thr Ser Lys Gly Lys Gly Asn Ala Asn Leu Glu Tyr Lys Thr Gly Ala
                165                 170                 175
Phe Ser Met Pro Glu Val Asn Val Asp Tyr Asn Ala Ser Ser Glu Thr
            180                 185                 190
Leu Arg Cys Glu Ala Pro Arg Trp Phe Pro Gln Pro Thr Val Val Trp
        195                 200                 205
Ala Ser Gln Val Asp Gln Gly Ala Asn Phe Ser Glu Val Ser Asn Thr
    210                 215                 220
Ser Phe Glu Leu Asn Ser Glu Asn Val Thr Met Lys Val Val Ser Val
225                 230                 235                 240
Leu Tyr Asn Val Thr Ile Asn Asn Thr Tyr Ser Cys Met Ile Glu Asn
                245                 250                 255
Asp Ile Ala Lys Ala Thr Gly Asp Ile Lys Val Thr Glu Ser Glu Ile
            260                 265                 270
Lys Arg Arg Ser His Leu Gln Leu Leu Asn Ser Lys Ala Ser Leu Cys
        275                 280                 285
Val Ser Ser Phe Phe Ala Ile Ser Trp Ala Leu Leu Pro Leu Ser Pro
    290                 295                 300
Tyr Leu Met Leu Lys
305
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<210> 210
<211> 742
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 341, 447, 451, 458, 535, 573, 650, 681, 683, 725
<223> n = A,T,C or G

<400> 210

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cattgggtac gggccccctc gagtcgacgt atcgataagc ttgatatcga attcggcacg 60
aggcccgacc gctccctgag agccagcaac gggcagtgat gtttagcccc gaggaaaaat 120
tacatgcgga atggaaagca ggcgctcagg gtggctcctg ctggaatgag agctggagtg 180
caggctccgt ggttcctggg catgcgggtg tggctcagtt ctcaccttgc agatggagtg 240
ggactgttga cccaggccag cctggggact gcctcctcac ctccctgcgc aggctgacct 300
tgtcaccttg cctcttgagc ttgcctctct cctgcccaga ngtccttgga gcaaaatgga 360
ggtcgagagg catttggcac tcacgcctca ccacggacac tggtgcattc ttgggtacct 420
cttggcctca atctattgct gggggangga ngactgangc ccattgctgg ggccctgaat 480
gcagggactg taaccaccca tccccttctc agggcacctc tccctctcca gcacncttgc 540
tttgctatta atgctaccta atttcctact gangtggtct agaagctcct ccgccattgc 600
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ccttgccgcc agcaaatttt tatccctagg gttaagataa cagaaggcan ccttgggcct 660
tgcctgccac attctcaggt ntncactgaa gcacagtatc tatttctcca aaaatagggg 720
ctgtnaactt gttactaccc cc 742

<210> 211
<211> 946
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 530, 540, 574, 608, 661, 719, 722, 734, 735, 785, 786, 807,
811, 827, 829, 835, 840, 865, 877, 894, 898, 899, 921, 924,
927, 935
<223> n = A,T,C or G

<400> 211
ggcacgaggc acatcgctgg atttctcatt gccaagctct attaattcat tctttttcat 60
aacctcttat tcttatttca tggatgcaac attttctttg tctctcaggg aataataatt 120
attcctactt ttaaaggtct aatttcttta ttactttatt tctctgggag tgagtttttc 180
ctaaagggat aatgagatgg aaaatgaaaa aacaaagttg agacatggag ataccttctg 240
aaactcaagc attcctctac gtggatgtgc cagagggaaa gaacagaaca aaggagggta 300
gacactattt aaataaaaat atataagaat attacataac aaacaaaaaa gcccaaatcc 360
tcaggttgaa aaggaggaga aaatgtcaag caagacaaaa acagatgaag caaccaaaaa 420
agtgacatag ctggtcacct atattgaaat ttcagaacat gagtgataaa ggactcccag 480
aaaaaaacaa aacccaaact aaaaaacaga aaaaaaggac tttaccaccn aaaacttgan 540
gaatcaggaa gactcagtct ctcattaaga aaantgctat aggggatggg ggcaaggcct 600
tcaaagtngc aggggatacc aataacctct ctgaagtttt ggaacttcat actccaaaat 660
ngaatttttg tttgaatagc cccggttagg ggccaatttt aggacttaga aaggacccng 720
gnaaatcatt cccnncttgc ccccccccgaa agaaattaat agaaggggtt tattcccgcc 780
attannaaaa aaggaatcca ggaattnccg ntttttttcca gtgttangnt ggggntgtan 840
aaactgaggg cttagcaagg gcggnattaa ccacccnggg tcccacccca aaantggnng 900
gggtgggccc caaattcggg nttnttncct ttaangcgtt aaaccc 946

<210> 212
<211> 610
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 67, 278, 281, 287, 401, 462, 483, 486, 532, 542, 547, 562,
563, 585, 593
<223> n = A,T,C or G

<400> 212
ggcacgaggt ttctggctgg agcctcggac actggctcac tgcagttggt ggtgtcgaca 60
gtggtangag ggcaaccagt aacgggagct tctcctgcca ggcaggaaga cgagtagaag 120
ggagcggcat gctggaggct ggagcctgag cccctggggc tcgccttgct gtgtttggtg 180
gtgacgtggg acactgcagc tcggccagag tggtaaaaaa tgtcctggtg tacgcttttc 240
tggctttgcc cgtctatctg ctccaagcca ggctgganga ngagganaag gaatcacctg 300
tggtacgctg gagcctgcat gtggcgtgac tctgcaactc gcctcgtgtg actgatggca 360
gccacggaga ctgcagctcg acagggagtg aggcttctca ntggcttgaa agctcagctg 420
actcccacga aatttgccgg aaactcaagg ctgtcagtga cnttcgtggc gccaagactt 480

aancangcgc gttgcatgca tccggccagt gtctgtgcca cgtgccctga cnccaccttg 540
anataancac ccggaacgcg cnncgcgcag gccgcgcgca cacgnccggg cancaacttg 600
gctggcttcc 610

<210> 213
<211> 438
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 5
<223> n = A,T,C or G

<400> 213
ccganagcgg tttaaacggg ccctctagac tcgagcggcc gccctttttt ttttttttg 60
aaataaattt ctagattatt tattacataa gcagaccact gaaacattta ttcaaaagta 120
ttccattgag agtcaaaaac atattgatat gattattatt ggtctgttaa agaaaacaaa 180
ataaaaagaa caaactggga attatcaata aacaaatcaa aacttagatg taattataac 240
ctaaagggct cacagggcaa atgtgaagca agcttctgtc tcagagcctg catatggaag 300
acatgtagta cttagctttg gcatctttct ttcctcctct tggttgagtt taagtattaa 360
taaaaggtgg actgagaaaa ccttttttta caatcttatg gggtattttt agtggaaacg 420
ttttagaagt aggaatat 438

<210> 214
<211> 906
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 14, 302, 324, 432, 444, 461, 498, 528, 561, 585, 617, 645,
660, 669, 699, 701, 760, 781, 824, 835, 849, 863, 872, 875,
881, 888, 893
<223> n = A,T,C or G

<400> 214
gccctctaga tcgngcggcc gccctttttt ttttttttt gaaataaatt tctagattat 60
ttattacata agcagaccac tgaaacattt attcaaaagt attccattga gagtcaaaaa 120
catattgata tgattattat tggtctgtta aagaaaacaa aataaaaaga acaaactggg 180
aattatcaat aaacaaatca aaacttagat gtaattataa cctaaagggc tcacagggca 240
aatgtgaagc aagcttctgt ctcagagcct gcatatggaa gacatgtagt acttagcttt 300
gncatctttc tttcctcctc ttgnttgagt ttagtattaa taaaagttgg actgagaaaa 360
cctttttta caatcttatg ggttattttt agtggaaacg tttagaagta gaatatacat 420
attaaaactg cncagaacaa atgnggtgca tctcaaatgg nggtccattt tcaaaatatg 480
aacacatatg ggcagcantt tttttttaa aaagtcagaa ggggcctnct catgcccctt 540
tccacttctt cactcattgg nccttcaacc caagcttaac tactntcctg acctccaaca 600
tcataaacta gtttccnagc tttgaaactt ttttccaatg agtcntaccg gaatagatgn 660
tcacagaanc ctcttaaaaa ttttggaccc tgcccgggnt ntaaaaaggg tgcaataaac 720
ccaccaacat cttggctggg ggggcagggg ccaaaagaan ttcccaaaac cgtttttgat 780
naaaaaaggg gacttttgaa aaaaaaatta aaatttttgc cagnaaagca tgggnccccc 840
cccttgaana aacccccctgc atnaaaccaa cnttntggga ntttttttngg tanggttttt 900
ctggct 906

<210> 215
<211> 312
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 188, 294
<223> n = A,T,C or G

<400> 215
ggcacgagga aaccaggttg gctgggtttt gggtgtaaac ttaaaaatga caatcagcat 60
gagctggccg tgggctgtgg gggttgtagg ggcatcttgg taagggaacc ctcgctcagt 120
ccctctctgt tctggtgggg aggacaagga gggccaatag gggccaatag ggaggctgct 180
gctaggangg tttcctaaaa gaacaggtgt agggctaggg ctggttctta gttcaggttg 240
ctctgggcag tgatttatat ccacacacct ttctgcaaag tgtcctaagg aganggcagg 300
gataggagtg tc 312

<210> 216
<211> 341
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 8, 14, 30, 40, 45, 51, 69, 84, 91, 95, 112, 115, 117, 136,
142, 145, 176, 189, 191, 226, 227, 231, 236, 294, 314, 331,
332, 340
<223> n = A,T,C or G

<400> 216
taagcctntc gaanataatg aatgagtcan ggagaggctn atgangaaat nccaaacacc 60
tgactaatng gtgccacatg attncaatgg nctanacatg ggttagatct cntcngngga 120
atgagcaata acaccnttaa antcntcaat tgacctagac acttcacact tgaaanatca 180
tcacttttna ngaccacgaa tgatgcttaa gaatcacatt ttgtgnngaa ntggantctg 240
gctacttaca cgaacagatt cttattcctg ttcatgagcc agtagacccg gaanaagact 300
taagagcttc tgancttttct cttagctcca nngcttgaan g 341

<210> 217
<211> 273
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1, 2, 8, 15, 18, 36, 41, 59, 60, 70, 77, 81, 91, 96, 97,
101, 110, 123, 149, 173, 174, 176, 191, 195, 202, 218, 227,
228, 232, 241, 244, 253, 262, 269
<223> n = A,T,C or G

<400> 217
nnccttcncc ccttnacnga catgaacaaa acagcngtct ngaaatttta ttaacattnn 60
aagggttacn ctccctnctt ntgttttccg ntaaanncta nacctgcgcn ggggcggccg 120
atncagccct atagtgagaa gcctaattnc agcacactgg cggccgttac tanngnatcc 180

cgactcggta ncaanttttg gngtaaagat ggacatanct ctatccnnga gnactcgtca 240
nccnttctct atnttacatg cnctaacgna gac 273

<210> 218
<211> 687
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 56, 59, 74, 123, 138, 169, 177, 183, 187, 205, 227, 229,
237, 238, 245, 253, 329, 334, 372, 456, 474, 480, 516, 558,
563, 564, 584, 593, 599, 611, 636, 639, 670
<223> n = A,T,C or G

<400> 218
ttttcagtgc tgttttgttc tcaattttga tgtcaaaatc tctgggttct tctaanctng 60
ttatgttctt ccancaaatc cttccagttt ttgtaatttt tttctatatc agaagcgcct 120
gancccaatg cccaattnat acaccggtct tctccggaac gcttggtcna aagggtntag 180
tcnattnggc tcctggaagc atctnaaatg ctccaggtta ctcccangnc cctggannac 240
ttcanttgtc tanacgaatc ctggttttcg agcggtcctt gatatcgcaa ggaaatacgg 300
taaaaattat ccaagctctc ttcccactna gganttcgga tctcatcagc cgggtaaagg 360
aaaactcctc angaagtttg ggcttcccct ccggtctacc ggctaatgtt aggaattact 420
tctggctctc ttccgataca tcctctcttc aaagtnaaga aggttaaaag aatnttaacn 480
tctcccagtg gctaatggtc aaacaccatc ctcatnagtc agactggggt ttcgaaagga 540
ggatataacc tccttgcnag ttnnaattaa aagggattaa ccanatggac tanccctcnc 600
cccgggattt nctctctcac aggagaaggg gtctcnccnc ttggctcatc cgaagcatag 660
gcaaaccccn gggaattttc agaaacc 687

<210> 219
<211> 247
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 10, 16, 54, 74, 89, 91, 118, 122, 130, 131, 138, 147, 154,
156, 163, 184, 185, 215, 233, 241
<223> n = A,T,C or G

<400> 219
gggcccttcn cctttnaatc gagagatcca aggttcaagg catgaaatac cagnctataa 60
aatgtctcaa gacntaaata atacggatng ngatagagag gttgaataat aaatgaanaa 120
anatgaaagn nattatgngg gaatacnaaa aaancngact aanggcggca ctgctgggca 180
tggnnaaatc ggattaattc ctcataggac agccnaaccc cttaaaatct cantttccgt 240
nacccga 247

<210> 220
<211> 937
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> 73, 867
<223> n = A,T,C or G

<400> 220
cgggctcgag tgcggccgca agctttttt actatagacc aatattaaag tcagttaagt 60
tccaaataca ganttggaaa actaaagtaa aatatttaat gggagaatat ctgcatctga 120
atatgtcaac tgtttgctat ttttcagcta tttaatcctt ctacctgtat ctcagaaaca 180
aatttaaaaa ttaatagatt tgacagcaaa atcattcagc actttactta ctccatcagc 240
aaggtattta tgtagtcatt tccatccatg tggccaaact gaaaatccct aaccaccacc 300
aaccaaaaat aaataaataa aaggagaggg ggtgggggga gagagagaga gaaagctcat 360
taaatagtaa aaaagtaaat aaaacaatga agttaaattc aggcctcagt aggcccagaa 420
actgtaaaca tttcacatgt aaatcatata caataaacac tgctaaaagt gtaaattcta 480
ctggcttctg agatacaaat acacgagtag aggaaattct aagacatttc tacttggttt 540
atgcatattt aaaattcagg gaaatatcag ctattctacc tgaaatatgt ttaagaaaaa 600
ttcctatttt ctctaaaaaa aggaataatc agaagacgct acatactatg taagaaaact 660
atacaatgac ccatcattag aagattcaga ataggaaaga aataataatt cactaataaa 720
atatatttat attgactgtc ttttttttatg atagcaacaa tgattcagca taaagtaaaa 780
atatatgtat ttccgatgcc atttttttatt cagttattct tttgagtttc tgttagaata 840
attatctgcc tatctctgac ttctgancag tcatttatgt ccaattataa gtacatgtgc 900
atattttatt accttaaacg cctctcaaat cctttca 937

<210> 221
<211> 353
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 7, 8, 9, 12, 13, 16, 20, 24, 27, 29, 30, 45, 50, 88, 126,
269, 287, 293, 309, 310, 311, 312, 320, 328, 329, 335
<223> n = A,T,C or G

<400> 221
ggctatnnna tnnttntaan atcntgncnn ccttgacgct gttantaaan aaaaacaaac 60
gaatatcctt tttttgctcc cccctgtnca gatactaatc tcacactaat acttacagta 120
taactnttcc tttcaactac caatattaag ttccaagcca cctgggctta agtatcccaa 180
caacttaggt aatttgttgc taaccaccat actatatgct aattataaca ctctaagccc 240
caaggaattt ttgttcagat ttcttatant ttccacttat aaatatnatt ccncctctat 300
gggtatatnn nncctctagn cccatatnnc ccacngggat ttgttgaggg ggc 353

<210> 222
<211> 813
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 638, 661, 664, 694, 709, 717, 722, 726, 743, 750, 752, 759,
760, 766, 784, 790, 799, 800
<223> n = A,T,C or G

<400> 222
ggcacgaggc tttactaagg ccagactcac tatccccgct tctgttctgt ggtacactgt 60
tcactcctca gtccatccta acctgacttc ctggccactg cagctcttcc gataagggtc 120

agcagtggct tagttattgc taaataataa gcgcacatgc actccctctt tcctgaaaca 180
ttgtccctcc ttggtttctg ttccttccta ggtctcctat cactcctcct tagtcttctg 240
tgcggacttc tgttccttct gccctttaaa agttggtatt ttccaggatt ctgtcctagg 300
cccacttact tctcattctg cacgttcttg ttggatgatt ctatcacatc cctaacttct 360
gctgcccagt atgcacttaa aattcccaaa tctgtatatc tggatctggc ctgtgtctct 420
agcctagaag tgtgctttat cccagaagca cctcaaacac tgcactttgg aaattaagct 480
tactgagtct cgagtctcaa gtcccaaact gacttctttt tctctatttt ggttagtgac 540
aacactattt attcagtcat gcaaaccaga gccctgagaa ccatcttaca ttctctttct 600
ccctttactc agttcttgct tctgttcttt ctcctccncc tctcctgcct gtgggcctag 660
nggncattaa ctggttggca ctgctttact ttcnattttt ttggctganc taacccnaag 720
ancctnttgt aggggccttt ctntcaggcn tnacttctnn caagancccc cgaaaccaga 780
tccnggggan tgctatggnn tggaaatatt ttg 813

<210> 223
<211> 882
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 753, 781, 810, 829, 835, 861, 863, 871, 875, 880, 882
<223> n = A,T,C or G

<400> 223
tcacactact gagaagcagg gaaacccact gaaagggcac gtttcttaac ctcagaatgg 60
ggctactagc ctctaaagca ggaattgcgt tttgtttagt atttccatgg tctgctgcaa 120
ggcgtggcct ttacccaatg gataaatgcg tacaaggctc ttgtgagcag tcaagtttct 180
cgaggtttac agttgaaggg aagtgggatt gttttcctgc gcatttaaat gaaggtaggt 240
gggtgatcac ctttccttaa atgtgtgaag ggatgagata aagagatagg catcttaatt 300
gccactgatg gccttcaggt gaggacaggc atgagccaac tgaagctttg acaattgtgc 360
tgaacccaaa acttcaaaaa caagaaaaaa catagactgg ctgaaatgat ctaagtcaac 420
agagcatggc cagcgcttca tacaaggcag gaccacaggg gaacactgac agcccaggag 480
gcactgagac agaggcagtg ggaagaagtg acagacccca gggactcccc accaacagca 540
gctgctgttg attaggaacc cccagtagac tgtcaggcac ctggtagtgg agaggctacc 600
aaggcccgga ctggagagga gccaaaggaa gaaacagtgc agtgcttaga cccctctggg 660
tctgcccgtg tccatacccc tagggagatt ccattccaga agtggacata ttcccacaga 720
gtgcctgggg ctcactcatc acagctgccc ctncatgaag gcattctcac tgcagcctta 780
ncagggaaca gggtcatttg cattaggcan cttgctgtcc tagaaggcnt cgggngtccc 840
tacactgccc atgttcccaa ngnggttcaa nctcnaaaan tn 882

<210> 224
<211> 660
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 77, 104, 116, 157, 169, 198, 253, 273, 325, 327, 330, 336,
350, 357, 361, 400, 434, 443, 478, 511, 555, 582, 596, 613,
622, 641, 651, 660
<223> n = A,T,C or G

<400> 224
gattaaactc aatcattcac ccgggctcga gtgcggccgc aagctttttt ttttttttt 60

tttttttttt ttttggncct ctgggcttgt gcccggaagg ggantgctgg gccacntggg 120
tgtccgtgtt tgattttctg ggacctgccc ccccgtntcc cgccccggnt gccgcgtctc 180
actccccgcc gcggtgcnag gggccccgtg tgccgcgcac ccttccaccc gtgttttgct 240
gttttttga ctntgggcgt cccaggggtg cancggccgt ggggccctgg tttgctttca 300
cctcttcatc tgctcactgg ccgcnantgn gtcttnttca aacaaacgtn tgaaggncaa 360
nccctgggct cctgtgaacc cggccgtctt tgcggcaaan tctgaggctc cttcgttatt 420
ctggatccgg cctntggtcg gangcgtgct ctgcaggcac tgctcccatt gctggcancc 480
ttttctcccc gtggccgccc ggccgcccat naaaggcgtt gcaaacgccc gccctcgcca 540
gcgcaaagtc aaacnccggt ggcccgcgga ccccccggcg gncgggaaca ccccancagg 600
cgggcaccac aanaagcgcg gnectccggc gtctaaaact nccatgtggc nccccccccgn 660

<210> 225
<211> 438
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 62, 171, 179, 192, 209, 278, 287, 292, 362
<223> n = A,T,C or G

<400> 225
aaaaaaaaag gaaaagtacc cagtgctctc agcttctgag cctcctctac agccctgttg 60
gnttttaaac ctgtgccctg tgtctgtgtc cccacttaat atatatagta cacagctgga 120
gagatggctc agccaggaga gggacccata ggtctgtgaa ttccagagga naggcaggna 180
tttataggtg gntctgtcag gtgaaatcng aggagccaaa gctattgtat gtgcatatgt 240
cagccgggct ctgtgggagg tggtgtaaga cctatggnat gggacangtg tncacgctgg 300
gatctctggc cggttccgaa aagtgaggat caggtagtgg gtggctgatt gcacaagttt 360
anaacccagg attagggaca cacaggtcag cacctgcttc tcagcatcct gactgggtgt 420
gatgggcata ctcaaggc 438

<210> 226
<211> 480
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 416, 422, 451, 466, 470, 479
<223> n = A,T,C or G

<400> 226
aaaattaaaa ccaaaaggat cttagaggtc ctttacttca gtggttctca atgtcagagg 60
atgttatgat acctaatcaa aatctccagg ggaactgttt tgaactcaac agactctctc 120
ctgttctgag agactctggc aaagttggga gagctgccag gtactgtcca catgaccctg 180
actgcccatg attcaattac cttgaatggc ttatccagtc caataccttc atttcttaca 240
tgaggaaact gaagcacgta tcacatagtg atacaatgaa aacttggcct taatcgattt 300
tcagtgctgc cagtacaatg tcttgagcat atcaatttct tccaaccctt gacaacataa 360
ggtacgacca tcaaattttt tatttctgct aatttattag accaaaaaaa aagggnatct 420
cncccattgt tttacaggga tgattttatt ncagaggatt tcatcntggn gctgattcnt 480

<210> 227

<211> 423
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 312, 395
<223> n = A,T,C or G

<400> 227
cattgtgttg ggctctgctt agcacatcac atcggagcac agaggtgacc tgttctgcca 60
cagggatgtt caccttagtc acctgattga ttcctcttca ctttggtcac gtgattcctc 120
caggaggatg ttcaccttgg tcgcctgatt cctccaggag gatgttcacc ttggtcgcct 180
gaccacacag gcatctatca ggctttctca ctgcagccac tatgtcccca taatggatga 240
gtgtcttgtg gagagatagt ccaaatgaca ctgatacctt ttgcctcata cggcctcacc 300
ccccaacaat cnaccactaa tgactgcctc atagcagttt ttccatttcc acagttcctt 360
ctatatgtat taattgtcat tctactataa agaanacttt ttcttttaaa aaaaaaaaaa 420
aag 423

<210> 228
<211> 249
<212> DNA
<213> Homo sapiens

<400> 228
cattgtgttg ggctgtagta aaatatgtgt ctggtaagat atgtgaagaa ataaaataag 60
atcaattaaa tctggcccat tgaatgacac attaattgta tattaatatg taatgttaaa 120
gatattagga gatggtggga cattatggca aactaaattt gggaggaggt tgaattgtat 180
aatttatgaa atcctaaagt ctagtacatt aacactctct actgtcaact tttcaaagca 240
gtgagaaac 249

<210> 229
<211> 436
<212> DNA
<213> Homo sapiens

<400> 229
cattgtgttg ggatgttatc tgaccatcac aatatgattt ataatatgga ggcatgaagt 60
catttctcat tggggcagga gtgtggcaag ggggaagaag agctttacca attaactcaa 120
gattatttgg tgacatttct cttacctttt aggtgaggag aaagagacag aggatggaga 180
attggtgctt ttagtatgct gatacattaa gctgcctgga agcagatgct aaatcctatt 240
gaaaataatt ttatttgcgt tttgcttagg gcattgttta gcaaaatact acacaaaaag 300
tcttgacctg tgtgtttgaa atggcagatg ttcacagtga ggactgagcc ttggggcaac 360
atcaatcttc acaattctgc acctatttgc tcaataactg gcttggttgg aaaaaaaggg 420
aaaaaaaaaa aaaaag 436

<210> 230
<211> 760
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 13, 14, 27, 66, 105, 194, 227, 239, 520, 537, 563, 597, 604,

646, 675, 686, 704, 716, 751
<223> n = A,T,C or G

<400> 230
cattgtgttg ggnngtggaa ggaaaanttt gaggcaatga agctaaacat aaaagaggaa 60
aagcanatgt tacctcaatg accacaatct acaaagtcca aatanaaaac ctgggagtat 120
gataggatga aactataacc tccagcaaag agcttaacag caattaaaat aaagacaaat 180
ttctgggatg gatnagacaa agtagcatat attacaaagg aaaatanact agtatcatnt 240
acgtttgatt aagtaactgc tttcaaataa ttgaatcata aacaatgatt tctgcggttt 300
taagctcatt attttggttc cctggtttct cctaggatgc agtatagaat ctccatgcct 360
gatgtttatg taccaacaga agctgctgct tctttctttc attatttcct ttttaagtga 420
aagttaatac cttttatatg ttacagagaa gaggcagaaa aagccacact cccactatgc 480
tattaaatgc cctgaggatc aactgaggga tgattatacn catggctgaa tacagtntat 540
tcatttgttt ctttggattg tanataacaa aaggtggtat tctgtaacat cttgtgncaa 600
ttanccaaat gttaaggcga aaatggaatc tttcaaacaa gtgttntaaa caggttttga 660
ttttccaaaa tttantatta gaaccntttc aattctggaa gttncccaat ttccangttg 720
tgttttctct tccaattctt ctttcctttg naaattcccc 760

<210> 231
<211> 692
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 20, 44, 47, 76, 92, 94, 105, 121, 123, 131, 146, 168, 208,
213, 218, 267, 269, 312, 331, 333, 341, 357, 374, 403, 437,
450, 451, 465, 492, 493, 501, 508, 531, 542, 560, 570, 588,
593, 600, 617, 619, 643, 651, 652, 653, 672, 692
<223> n = A,T,C or G

<400> 231
cattgtgttg gggggtgctn tggggagaac acgcttatgt tganatnggg ctccccgaga 60
aagcctcatt gacacnttcg aataaggacc cntngggaaa ttcangtgag ttgtggacat 120
ncntagataa natcaaaggc cttgangaag tccgcctggc accttccngt ctgcgaggag 180
gttgatacca aatgctaagg ggtccagntg cantgtanta tcgtgagatc agagtgatgg 240
gcaggtgtgg gcatgcgggc cctcaanang aagtgcccag gatgactcag acttatgcct 300
atatccattc antcctgttc attatttta ncnttccctc naaggacccc caatttnaac 360
catttgttat tcanggctat acttataaaa gtcatttgtt ttnagtctgg gtgatattaa 420
aaccatttgg acgccangca tggtggctcn nggcctataa tcctntccac cttggggaag 480
ccgaagctgg tnnaatccct naaggtcngg aatttgaaaa ccatcctggg ncaacattgg 540
gngaaaccct gtctctactn caaaaaacan aaaattttct ggggcctngg ttngcaggtn 600
gcctgaaaat ttcccancnt tactccggga aggccgaatg ccntaaaaaa nnnaccttta 660
acccccccga angggcggaa agtttccatt tn 692

<210> 232
<211> 518
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 10, 13, 35, 38, 60, 66, 71, 77, 90, 105, 117, 118, 151, 154,
157, 164, 177, 181, 193, 230, 235, 238, 243, 247, 250, 255,

267, 273, 277, 279, 284, 293, 309, 320, 322, 334, 357, 370,
372, 373, 380, 386, 388, 398, 402, 410, 446, 467
<223> n = A,T,C or G

<221> misc_feature
<222> 476, 477, 479, 504, 510
<223> n = A,T,C or G

<400> 232
actcaaatgn ccncttgaag gtcacccaga ctcanaangt gtcaagcttt gggtggggtn 60
gtaatnaata nctcggnctc ctgattagtn ctcctagctc gatcnctggc tgagatnngt 120
tcgagcaccc ttcctttgat cccgtcaaac nccnggnaaa agcngcctgc gtagtcncct 180
nagccgaatc tgntttcccg acaccctccg ctcggtcggc tgccctggtn aagcngcntc 240
ctnaaanaan aaagngaagt ctccccngtc tcncccnant cctngggaaa acngcctgaa 300
ccaatatgnt cccccaaggn cnccccaggg cacntaaccc gttaggaggg ccccccnctg 360
gcgttttggn cnnaagcccn gccccngnaa taaccccnct anaaccacgn aaaaatgcaa 420
agtcccaaag ggtaaagaat ctcccnaccc cccggttccc tcgcaanctt cccctnngna 480
cttgtgttcc gggaaaaccc ttancccgan cctttcca 518

<210> 233
<211> 698
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 509, 617, 618, 635, 641, 681, 688, 690
<223> n = A,T,C or G

<400> 233
gcacgagttt ctgtctgtct gtctctctct ctctctctct ctctctctgt ctctctctca 60
cagttagaat ttggtctgtt tctttattca ataccccaat atatgttcat tagggttata 120
ctgtatacac tacacataac agttttgttt tttgttttgg atattatttg ataataagaa 180
ttttaccaca tcattaaaaa aagtttcccc aagctataat ttttgataat tgcactcttc 240
cactattcaa atgtttattt aactctttct ctcctggagt aggtttacat tccattttag 300
ctatgatact gctttaagag aaattgtttt aagataaatt tccatagaca ggtcaaagga 360
ggtgaatata tgtaagcttt tcgatgcctg ttactgaatc tcattctgga aaacataact 420
gtcaatgccc tctttttctc atggtaaaaa aatacataac aaaatttacc atcttaatcg 480
tttttaaatg ttacagtacg atagtgttna ctgtatgtac cttgtgcaac agattctctg 540
aaaactttt catttttcaa aatgaaaact ctgtactcat tgaacaggca gcttcccaac 600
ttccccattc ctcccanncc ctacccctgg ttaanagtct nacaaaaccc gggaatttta 660
tgaaatttga aacactttta naataccncn tattaggg 698

<210> 234
<211> 773
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 289, 331, 367, 523, 545, 582, 594, 623, 652, 663, 675, 698,
709, 711, 722, 740, 749, 764
<223> n = A,T,C or G

<400> 234
ggcacgagcg cagcttttcg aaagctgtaa tttgttttgt atcaaaagtc ctgcagtata 60
ttagtctcat tgcattttaa agagtttcca agtgatcagt gatggttgtc tgttttttag 120
tattacggtc ttatgtaatg ttcgaaaact agtcagtttg gtgctgtcgt acggggcgga 180
aagatcaggc caggcaaagt actctggccg ccaaagtaaa tgcttaaggc cgccaacgga 240
ttatgtcctg gggttcgatg agggccgtaa ttaggttgag ctggtgtang ctaacctcgc 300
agccatgtcg gagagagatg agagacataa nattttaaag taggggcgta ttttacgaag 360
ttctgancca tttcctttgt tatcggtccc ggcaaaagca actgagataa atgtgttaaa 420
agactcgatg attttttcga cttcagcaac gtactcagcc ttgggttctc gtagtttttc 480
aaaggcagct atttgctgag attcatgaaa agtttgactt ganctgcttg tcaatttctg 540
cagcncgggc ttcaactgtt attgaatttg tttgattaag cncaatacgt tgcnggtcac 600
caaggttttc catgttttga ctncacctgg tcgaaccaat ttgaattatg tnttttgcc 660
tgncctgttc ccccnccttt aaatccatct ctttttnga aacctttgng nggttgaatt 720
cngccgcccg gttcccaacn tttggttcna ccttggaaaa aaanatgggt agt 773

<210> 235
<211> 849
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 581, 612, 643, 647, 716, 717, 758, 775, 778, 786, 821, 825,
837
<223> n = A,T,C or G

<400> 235
attgggtacg ggcccccctc gagcagcctc cactgcaatg ccgctgaatc aagagacttt 60
tcaatacgct ttatcagtga aaatgatgtg atctgaagag tcctatcttg agcactttgc 120
atgacatcca acgttaatgt ccacaacgtt cttagctgcc caaccccttt atcggcaagc 180
tccaaaggtg tgtgcaaacg ttctacggcg tcatgaaaag ctgaaaaatg ctgtgtcaac 240
actgcaccgc tgcgcatctt caaaagcagc gcccttatag tctccgcatt cgaagacgat 300
aacccgcgta gaatagcctc ataatcactt ttgtagaaat caatcagagc tgtgctagga 360
acctttccat ccaaaacata cgactgtgcg accacgtctg caaaagcaga cgtcacatta 420
tgcatatgcc ctcttaccgt cagccgatca tcctcactca tagcgacgcg agaaagctct 480
tgttccagct cgtgcacggt atccaattca gtaatcctac gcaacgccgt ctgaatcgtg 540
ttcataagtt cagttttaaa gctcaaaact tcgtctctta ntttaccccc tgtgactttc 600
aaactgggcg antcttcacc attttattaa tcgtcttttt gangganggc ccagcgttag 660
atctgcatcg ccagcggaat cgttactccc tcccattcct cctccgggta acgcanntag 720
tttctccgaa gccttaaaat tagccgggga aagggaantt atttgcccca acaanggnat 780
cgcggncctg gtggttaaaa ggaactgaaa taaaattaaa ncccncttgg gggaaangcc 840
cgcatactg 849

<210> 236
<211> 310
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 21, 90, 150, 194, 234, 261, 302
<223> n = A,T,C or G

<400> 236

ggggtgggtt gcttccgaaa nccggggccc ggccaacttg ttggcttggg aatattctgg 60
caagaaaatt tccagggcgg cgccaatttn atcaagcccg ggcggcctta aaccgaaaac 120
tctggcaggg tcaacccctt tcatgggcgn ttgaaagctt gaagcgcccc aagttactcc 180
caagcttgtt gcgnttgccg ttgggggcgg gggaaaagtt gaaaacacgg gcgntttgtt 240
gcccgccccg cgggcggttt nttacgccat cctgggaaaa ctttcagggt tggctgctta 300
cnaaaacggg 310

<210> 237
<211> 315
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 9, 21, 24, 38, 51, 85, 91, 107, 110, 116, 127, 140, 163,
164, 190, 205, 213, 222, 224, 231, 233, 241, 255, 257, 260,
269, 294, 295, 303, 306, 314
<223> n = A,T,C or G

<400> 237
gcacgagtnt ttgttattta natnttgctt tgtttaangg aagaacacaa naatgccctg 60
ctaaagggat tctgtttggt tgcangctgc nagcggggaa aaaatcnaan tgtatnttgc 120
acaacangat tttttagaan tcagaactat gacatgaagt canncagggc actctacgac 180
tgaatttgcn gtgctgcctt cacangctcc ttnctcgctc tntnctggca ncngtgactc 240
ntacacgtcc tgganantan cctccctana aggaacgact ccgacacccc cccnntaccc 300
ctnaangttc atcng 315

<210> 238
<211> 510
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1, 10, 92, 93, 138, 242, 258, 282, 309, 329, 356, 362, 373,
376, 382, 389, 391, 395, 407, 418, 420, 424, 433, 445, 449,
459, 461, 481, 484, 498, 508, 509
<223> n = A,T,C or G

<400> 238
ngcacgagtn tttgttattt atatattgct ttgtttaaag gaagaacaca aaaatgccct 60
gctaaaggga ttctgtttgg ttgcaggctg cnngcgggga aaaaatcaaa gtgtattttg 120
cagaaaatga ttttttanaa gtcagaacta tgacatgaag tcaagcaggg cactctagga 180
ctgaatttgc tgtgctgcct tcatatgctc cttgctcgct cttttctggc agctgtgact 240
cncacaggtc atggaganta tcattcccta aaaggaacaa cnccgatatt catctttatc 300
cattaagtnc atctgtccca ttctatgtng tggatgctaa cttttgatca ttgatngtga 360
tnccatggac atntancatc ancttttcana ncctnggatc tttgacnagt cttattantn 420
agantccaac tantacgatg ccganttana aatgctggnt ntccaattcc tactcaaata 480
nccnacatga acttccantc cccttgcnna 510

<210> 239
<211> 209
<212> DNA
<213> Homo sapiens

<400> 239
ggtgcttttc ccttctactc gtcttcctgc ctggcaggag aagctcccgc tactggttgc 60
ccttctacca ctgtcgacac caccaactgc agtgagccag tgtccgaggc tccagccaga 120
aacaggtagc agccatgccg gataccaaac gcccacactt aagagcctga aatgacctga 180
cgccacctcc gcatgcttta cctactgag 209

<210> 240
<211> 610
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 67, 278, 281, 287, 401, 462, 483, 486, 532, 542, 547, 562,
563, 585, 593
<223> n = A,T,C or G

<400> 240
ggcacgaggt ttctggctgg agcctcggac actggctcac tgcagttggt ggtgtcgaca 60
gtggtangag ggcaaccagt aacgggagct tctcctgcca ggcaggaaga cgagtagaag 120
ggagcggcat gctggaggct ggagcctgag cccctggggc tcgccttgct gtgtttggtg 180
gtgacgtggg acactgcagc tcggccagag tggtaaaaaa tgtcctggtg tacgcttttc 240
tggctttgcc cgtctatctg ctccaagcca ggctgganga ngagganaag gaatcacctg 300
tggtacgctg gagcctgcat gtggcgtgac tctgcaactc gcctcgtgtg actgatggca 360
gccacggaga ctgcagctcg acagggagtg aggcttctca ntggcttgaa agctcagctg 420
actcccacga aatttgccgg aaactcaagg ctgtcagtga cnttcgtggc gccaagactt 480
aancangcgc gttgcatgca tccggccagt gtctgtgcca cgtgccctga cnccaccttg 540
anataancac ccggaacgcg cnncgcgcag gccgcgcgca cacgnccggg cancaacttg 600
gctggcttcc 610

<210> 241
<211> 474
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 67, 114, 120, 124, 137, 144, 150, 209, 279, 285, 291, 324,
384, 400, 407, 417, 421, 428, 438, 453, 459
<223> n = A,T,C or G

<400> 241
ggcacgaggt ttctggctgg agcctcggac actggctcac tgcagttggt ggtgtcgaca 60
gtggtangag ggcaaccaat aacgggagct tctcctgcca ggcaggaaga cgantagaan 120
ggancggcat gctggangct ggancctgan cccctggggc tcccttgctg tgtttggtgg 180
tgacgtggga cactgcagct cggccagant ggtaaaaatg tcctggtgta cgcttttctg 240
gctttgcccg tctatctgct ccaagccacg ctggaagang agganaagga ntcacctgtg 300
gtacgccgga gcctgcatgt gggngtgact ctgcaactcg cctcgtgtga ctgatggcac 360
ccacggacac tgccactcta cagngaatga ggcttctccn tggactngaa agctcanctt 420
nactcccncc aagtttgncg gaactcaagg ctntcactna acttcgtggc gcca 474

<210> 242
<211> 415

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1, 8, 9, 34, 71, 141, 162, 195, 262, 309, 321, 364
<223> n = A,T,C or G

<400> 242
ngcggggnnt tccaccagct cgtgtgcaca agtngcgcca cacaaacatg cgcaggcact 60
gcatgtcatc natgtgcttc gccgtggttc tggaacagcg agtagaagat ggcgttcggg 120
tcgcgaccaa attcgacgtc ntggatgctc ttgcgcaaga angtcacgta cgggatcggc 180
ccgatggatc cgctnaagcg ccgaaaggcc ctgacttgca aaccgcggct cacagaaccg 240
gcaccaccgg cgccctccgc cnacaaaagt cgagcggcct ccgacacaca ctccctcaca 300
tccccgtcnc gcacttcggc ngtttctagc tccgccacgg ttgtcagcgg caccgcgggc 360
gccnagctgc cggcggcatc cgttgcacac agcacacacg gatccgctct cgtgc 415

<210> 243
<211> 841
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 297, 511, 589, 629, 644, 650, 657, 676, 677, 688, 694, 696,
730, 738, 744, 749, 755, 827
<223> n = A,T,C or G

<400> 243
aacgaggtgt cgatgagcgc gaacaatcgc cctccttcat ctctacctga tggtgaactt 60
cgctcctaca gccgagccaa tgaagacgaa tggctgctgc cgaggatggg agtctcacta 120
gagcacgcgg cgctggacaa ctcatcgact tgtacgcttc cggtagctta gcccattcag 180
ctccactgac gacagagacg gagctggcca ctgccatctc gacgcagcgg gacaaggagc 240
agcttcgggc gccgtatgca tcactcgaag agaaccagga gcagccggaa gcaggangcg 300
ctgcacggta caggcacttt cggcgcttca gcggatccat cgggccgatc ccgtacgtca 360
ccttcttgcg caagaacatc caggacgtcg aattcggtcg cgaaccgaat gccatcttct 420
actcgctctt ccaggacccg gcgaagcaca ttgatgacat gcagtgcctt gcgcatgttt 480
gtgcggcgct accttggtgc acacgaacga nggcaaccaa cccgccccag gtgccgctct 540
atgcattcct gttctgttcc ggtgtgcatg gccggatgtg gaccgtganc ttggtgaatc 600
ggctggtgca tgaagactta ccgctctcnt caagggcgaa cgcncctcan ttcgganaag 660
gaacaaaacc cccccnnaag aacggcantt gcancntttt cccccgctgc cggctcttct 720
ccattcgggn attctctntc tccnaaaant ccgcnaaatc ttctttcggt ttctcccctg 780
tttttatttg cccttcccgc cacttgggtt gttttacatc ctacaancct ttttttctc 840
c 841

<210> 244
<211> 761
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 243, 506, 510, 514, 532, 586, 592, 671, 687, 693, 702, 711,
713, 732, 734, 752

<223> n = A,T,C or G

<400> 244
aacgaggtgt cgatgagcgc gaacaatcgc cctccttcat ctctacctga tggtgaactt 60
cgctcctaca gccgagccaa tgaagacgaa gtggctgctg ccgaggatgg gagtctcact 120
agagcacgcg gcgctggaca actcatcgac ttgtacgctt ccggtagctt agcccattca 180
gctccactga cgacagagac ggagctggcc actgccatct cgacgcagcg ggacaaggag 240
cancttcggg cgccgtatgc atcactcgaa gagaaccagg agcagccgga agcaggaggc 300
gctgcacggt acaggcactt tcggcgcttc agcggatcca tcgggccgat cccgtacgtc 360
accttcttgc gcaagaaaca tccaggacgt cgaattcggt cgcgacccga atgccatctt 420
ctactcgctc ttccaggacc cggcgaagca catttgatga actgcagtgc ctgcgcatgt 480
ttgttgcggc gctacctggt tgcacncgan cganggcaac aacccgcgcc angttgccgc 540
tctatgcatt ccctgtctgt ccggtgttgc atggccggat gtggancgtg ancttgtgaa 600
tccgctgggt gcatgaagga cttaccgctc tcgtcaaggg cgaacgcgcc atcaattccg 660
gaaaaggaac naaaaccccc ccccaangac ggnaatttgc ancttttccc ncncctgccg 720
gctcttctcc antncgggct tctctttctc anaaaattcc c 761

<210> 245
<211> 710
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 498, 505, 532, 565, 566, 580, 581, 592, 594, 601, 602, 654,
669, 676, 690, 691, 703, 708, 709
<223> n = A,T,C or G

<400> 245
aacgaggtgt cgatgagcgc gaacaatcgc cctccttcat ctctacctga tggtgaactt 60
cgctcctaca gccgagccaa tgaagacgaa gtggctgctg ccgaggatgg gagtctcact 120
agagcacgcg gcgctggaca actcatcgac ttgtacgctt ccggtagctt agcccattca 180
gctccactga cgacagagac ggagctggcc actgccatct cgacgcagcg ggacaaggag 240
cagcttcggg cgccgtatgc atcactcgaa gagaaccagg agcagccgga agcaggaggc 300
gctgcacggt acaggcactt tcggcgcttc agcggatcca tcgggccgat cccgtacgtc 360
accttcttgc gcaagaacat ccaggacgtc aaattcggtc gcgaccgaat gccatcttct 420
actcgctctt ccaggaaccg gcgaagcaca ttgataacat catgcctgcc catgtttgtt 480
gcggccctcc tggttgcnca cgaancgaag ggcaacaaac ccgcgccagg tngccgctct 540
tatgcattcc ttgtctgttc cggtnntgca tggcccggan nttggaaccg tnancttggt 600
nnaatcggct ggtgcattga aggaacttac cgctctcgtc aagggccgaa cgcnccccttc 660
agttcggana aaggancgaa aacccccccn naaggaacgg ccnttgcnng 710

<210> 246
<211> 704
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 85, 91, 198, 332, 375, 458, 507, 516, 538, 553, 570, 593,
607, 624, 634, 646, 647, 653, 659, 674, 684, 693, 704
<223> n = A,T,C or G

<400> 246

aacgaggtgt cgatgagcgc gaacaatcgc cctccttcat ctctacctga tggtgaactt 60
cgctcctaca gccgagccaa tgaanacgaa ntggctgctg ccgaggatgg gagtctcact 120
aaagcacgcg gcgctggaca actcatcgac ttgtacgctt ccggtagctt agcccattca 180
gctccactga cgacaganac ggagctggcc actgccatct cgacgcagcg ggacaaggga 240
gcagcttcgg gcgccgtatg catcactcga agagaacagg agcagccgga agcaggaggc 300
gctgcccggt acaggcactt tcggcgcttc ancggatcca tcgggccgat cccgtacgtc 360
accttcttgc gcaanaacat ccaggacgtc gaattcggtc gcgacccgaa ttgccatctt 420
ctactcgctc ttccagggac cggcgaagca cattgatnaa attgcattgc ctgcgcatgt 480
ttgtgcgggg cttcctggtg ccccgancga agggcnacaa ccccgcgcca gggtgccnct 540
ctatgcattc ctntctgttc cggtgttgcn tgggcgggat ttgaaccgtg aancttggtg 600
aatccgnttg gtgcattaag aacntaaccg ttcntcgtca ggggcnnacc ggncccttnc 660
aatttcggaa aaangaacca aaancccccc ccnccaagga aacn 704

<210> 247
<211> 618
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 513, 541
<223> n = A,T,C or G

<400> 247
ggccgccagt gtgatggata tcgaattcaa cgaggtgtcg atgagcgcga acaatcgccc 60
tccttcatct ctacctgatg gtgaacttcg ctcctacagc cgagccaatg aagacgaagt 120
ggctgctgcc gaggatggga gtctcactag agcacgcggc gctggacaac tcatcgactt 180
gtacgcttcc ggtagcttag cccattcagc tccactgacg acagagacgg agctggccac 240
tgccatctcg acgcagcggg acaaggagca gcttcgggcg ccgtatgcat cactcgaaga 300
gaaccaggaa gcagccggaa gcaggaggcg ctgcacggta caggcacttt cggcgcttca 360
gcggatccat cgggccgatc ccgtacgtca ccttcttgcg caagaacatc caggacgtcg 420
aattcggtcg cgacccgaat gccatcttct actcgctctt ccaggacccg gcgaaagcac 480
attgatgaca tgcagtgcct gcgcatgttt gtngcggcgc tacctggtgc acacgagcga 540
nggcaacaaa cccgcgccca ggtgccgctc tatgcattcc tgttctgtcc gggtgtgcat 600
ggcccggatg tggaaccc 618

<210> 248
<211> 622
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 276, 355, 356, 382, 387, 421, 426, 462, 474, 480, 483, 486,
498, 506, 527, 535, 553, 559, 579, 590, 616
<223> n = A,T,C or G

<400> 248
gcacgagagc ggatccgtgt gtgctgtgtg caacggatgc cgccggcagc ttggcgcccg 60
cggtgccgct gacaaccgtg gcggagctag aaactgccga agtgcgcgac ggggatgtga 120
gggagtgtgt gtcggaggcc gctcgacttt tgttggcgga gggcgccggt ggtgccggtt 180
ctgtgagccg cggtttgcaa gtcagggcct ttcggcgctt cagcggatcc atcgggccga 240
tcccgtacgt gaccttcttg cgcaagagca tccacnacgt cgaatttggt cgcgaaccga 300
acgccatctt ctactcgctc ttccagaacc cggcgaagca cattgacaac atgcnntgcc 360

tgcgcatgtt tgtgcggcgc tncctgntgc acacgaccga gggtaccaac ccgcgccagg 420
ntgccnctct acgcattcct gtctgcccgg tgtgcgtggc cnggatgtgg accntgagcn 480
ggngantccg ctggtgcntg aagacnttgc cgctctcgtc aaggccnacc gcccntcgcg 540
gcggaaaaag gancaaaanc cccccgccaa gaaccggcnc tgcaccgttn tcgcgccccc 600
gctgggctct tctccnttac gg 622

<210> 249
<211> 517
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 447
<223> n = A,T,C or G

<400> 249
cattcgagct cggtaccggg gatccgattg gtaaagggga tgcggaacag ccagctggtg 60
ttttcggtgc ggccggggca gcccacatcg ctgtggtcgt tggcgtactg gatgcgatgt 120
gccgggacaa acgcgttttc caccacgatg tcatgactgc ctgtgccgcg caggcccagc 180
acatcccagt tgtcctcaat gcggtagtcc gccttgggca ccagaaaagt cacatgctcc 240
aggccaggcg tgccatcacg cttgggcagc agaccgccta gaaacagcca gtcgcaatgc 300
ttggagccgg tggaaaagct ccagcgaccg ttgaacctga atccgccttc cacgggctcg 360
gccttgccag taggcatata ggtcgaggcg atgcgcacgc cgttatcctt gccccacaca 420
tcctgctggg cctggtcggg gaaaaancgc cagctgccaa ggggtgaacg ccgaccaccc 480
cgtaaatcca ggccgtggac atgcagccct ttaccaa 517

<210> 250
<211> 215
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1, 2, 4, 190, 193
<223> n = A,T,C or G

<400> 250
nntncattgg gccgacgtcg catgctcccg gccgccatgg ccgcgggatt accgcttgtg 60
accgcttgtg accgcttgtg accgcttgtg accgcttgtg accgcttgtg accgcttgtg 120
accgcttgtg accgcttgtg accgcttgtg accgcttgtg accgcttgtg accgcttgtg 180
accgcttgtn acnggggggtg tctgggggac tatga 215

<210> 251
<211> 231
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1, 12, 66, 111, 121, 127, 146, 153, 157, 169, 178, 180, 197,
206, 221, 222
<223> n = A,T,C or G

<400> 251
ngcgcccacc tngtgattga tggtcgttta ctatcaagta tgtacatctt gctctagaca 60
actccnattc agtggaagaa attgggaaag tatcccggat aagtaatagg nattaggtct 120
nccttantgc ttggtgggat attccncaac tgntccngat cggatcagnc tcgtgtcngn 180
gaatgtgctc gatcgtnatt ctactnctga gcttctatcc nnacgtggcc t 231

<210> 252
<211> 389
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 9, 11, 23, 38, 50, 56, 77, 91, 143, 190, 197, 210, 211, 222,
233, 237, 246, 250, 265, 271, 284, 291, 293, 299, 307, 316,
320, 348, 355, 362, 368, 373, 378, 388
<223> n = A,T,C or G

<400> 252
atgtatcanc nctgttggtg ttncatcttt tgcagtcngt tctaagggcn gataantatc 60
agagatgcta atgcatnttc tgccaggcca ncattggtgg cctatgcgta ctcttcttat 120
cttcctgaag agtcatctct ggnggatgtg ttccccccctc tccacagtgt ttgcaagcgt 180
tacccacgcn tgtcggngcc gggaaggtcn ncacatccgg gnagacttcc ccncgtntga 240
atcgtntctn gaatctccgg cgtcntccct naacctcttg actnggacaa ngncccgtnt 300
tcccctntgt gaactngtan ccgcccccct ttcccccctc agcctaancg ggaangaaga 360
cngggtcnat ctngggcncc acaagaant 389

<210> 253
<211> 289
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1, 8, 9, 27, 36, 63, 78, 81, 89, 92, 99, 114, 117, 126, 131,
147, 159, 161, 163, 184, 194, 200, 203, 208, 210, 224, 232,
237, 250, 251, 260, 269
<223> n = A,T,C or G

<400> 253
nggggccnna tgagcgcgcg taatacnatc actatngggc gaattgggta cgggcccccc 60
tcnagcggcc gccttttntt ntttttttnt tnttttttnt caaaacaccc tccnccntgg 120
atgganacgt naccttttctc taaccanatc ttcacaatnc nantctcagg cagccgcctc 180
aaanccgatg tcangttggn atntcaantn caatcttatt ttgngaatta anctganatt 240
gtggatggtn naccaatcan atacttggna tccgttgaac ccctgtgga 289

<210> 254
<211> 410
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 68, 280, 283, 284, 299, 300, 304, 342, 354, 368

<223> n = A,T,C or G

<400> 254
attgtgttgg gaacttgtag acagctatat caattgcagt gctatttctc tgaggtattg 60
aatctcantt attataattt tgaaatccaa ttggcttgga cttcattatt ttccaactaa 120
aaagatgatt gaaggattta tttgaaatgt gtaaagagta atatagattt tatgcttatg 180
tttccttgaa aaaagtaggt aaaattcttc tggaagtgtt actcctaaaa tacaaatgaa 240
catgtcaaga attacataaa ttctttaaac tatccttaan aannaatggc tctatgtann 300
gagngaccct tacagactat taagaattaa cttgcatggc anagactcat ttanattcat 360
gaaatggntc tcactttctt ggtaagatct ggcttggacg tttttggtaa 410

<210> 255
<211> 668
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 90, 217, 220, 258, 476, 479, 538, 547, 554, 566, 579, 621,
623, 635, 650, 666
<223> n = A,T,C or G

<400> 255
ttttttttttt ttttcctgtg ccaggcacta taccactgtg ctaggtgcct tctttgcatt 60
acttcatttc ctcataagct ttctgaggan acagaaagct tgaggttcac gtagctagca 120
tctacataaa ttagttgcta aaaacataca atacgtcttc cggcaggctg tcattagtaa 180
ctgatactac tagttgataa tctcataaac ctagcanaan ctaccattta agctgaaaca 240
actgtcaata tcactaanta aaacttaaat ccataaatca actatattct aaaatctgac 300
ttcagttcaa ttaaaaaatc actagttgtt acctacctcc ttctgaaagc cagtacaagt 360
taaatgaaca actcccgagt ttaacaaaca agtggcatct aaaaaaaaga tttaaaaaat 420
aatccactta catatattta aaatggcatt aataaaacaa aatttatcca ataacnaant 480
ggcaaaggaa ggtgtccaat tattacatgt tataaatctt taaattaaac ttttcttngg 540
tttttcntcc ctanaataaa tacaancctt tccccgccna accagaaaaa agcaaaaaac 600
aaaacccaaa aactcccagc ncngcttaaa aaacncaaaa aaaataaaan ctctattaaa 660
tgcccnaa 668

<210> 256
<211> 487
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 3, 10, 12, 18, 32, 36, 42, 78, 81, 148, 174, 177, 204, 287,
299, 314, 341, 358, 365, 413, 436, 444, 468, 469, 475, 482,
485
<223> n = A,T,C or G

<400> 256
cgnaaccgtn cnttttttnat gtgcgcccgc cncagnacca gngccgctac aggcgaaggc 60
cggaagcacg ggagaggntt nggaaaaaaa agagtgctta caaagagcat attcgcagag 120
ttgggatgag tgaaggggac cagaaggngc agcggtaggg acgcgtgaaa ggangcngcg 180
gagaaatgac agcaagaagg gganaagcac acgaaaaggc agtatcctcc tccccccttt 240
tcgaggactg ccgcatcttt gttttctgcc cattccagtc accgaanaag atcccaaana 300

aagaagaaaa gaancagagg tgcacttcgc ttcatatttc nctcgctttc ttttctgnct 360
tcacnagttc tgcaggattg cccttgtcct cttccgagca catctacgca cgnatgaggc 420
tcggcaggtc aagccnacaa aacnctcgca ctcctctttt tctttgcnng tctgngtggt 480
anggngg 487

<210> 257
<211> 502
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 11, 14, 18, 24, 26, 29, 35, 59, 81, 111, 118, 121, 430, 498
<223> n = A,T,C or G

<400> 257
cctttgaaag nccngctnaa ttcngnganc ccccngatca gcaccaggga gctacaacna 60
aggccggaag caggggattt ngccggaaaa aaaagagtgc ttacaaagag nttatccnca 120
nagatgggat gagtgaaggg gacgagaagg tgcagcggta gggacgcgtg aaaggaggca 180
gcggagaaat gacagcaaga aggggagaag cacacgaaaa ggcagtatcc tcctcccccc 240
ttttcgagga ctgccgcatc tttgttttct gcccattcca gtcaccgaaa aagatcccaa 300
agaaagaaga aaagaaacag aggtgcactt cgcttcatat ttcgctcgct ttcttttctg 360
tcttcacaag tctgcaggat tgccccttgtc ctcttccgag cacatctacg cacgtatgag 420
gctcggaggn caagccaaaa aaacgcttgc actcctcttt ttctttgcgt gtctgtgtgt 480
atgtggaatt ccgcggcncc gc 502

<210> 258
<211> 510
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 6, 15, 18, 27, 28, 33, 41, 324, 446, 447, 449, 483, 498,
506, 509
<223> n = A,T,C or G

<400> 258
actcgncact cgatncanta caagagnnta tgnattcgaa ngtgcccccg catcagcacc 60
agggagctac aacgaaggcc ggaagcaggg gagagggccg gaaaaaaaag agtgcttaca 120
aagagcatat ccgcagagtt gggatgagtg aaggggacga gaaggtgcag cggtagggac 180
gcgtgaaagg aggcagcgga gaaatgacag caagaagggg agaagcacac gaaaaggcag 240
tatcctcctc ccccctttc gaggactgcc gcatctttgt tttctgccca ttccagtcac 300
cgaaaaagat cccaaagaaa gaanaaaaga aacagaggtg cacttcgctt catatttcgc 360
tcgctttctt ttctgtcttc caagtctgca ggattgccct tgtcctcttc cgagcacatc 420
tacgcacgta tgaagctcgg aggtcnngnc aaaaaaacgc ttgcactcct ctttttcttt 480
gcnagtctgt gtgcatgngg gaaatnctna 510

<210> 259
<211> 292
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> 3, 4, 5
<223> n = A,T,C or G

<400> 259
gannngagtc acgaaaaggc agtatcctcc tccccccttt tcgaggactg ccgcatcttt 60
gttttctgcc cattccagtc accgaaaaag atcccaaaga aagaagaaaa gaaacagagg 120
tgcacttcgc ttcatatttc gctcgctttc ttttctgtct tcacaagtct gcaggattgc 180
ccttgtcctc ttccgagcac atctacgcac gtatgaggct cggaggtcaa gccaaaaaaa 240
cgcttgcact cctctttttc tttgcgtgtc tgtgtgtatg tggaattcct tg 292

<210> 260
<211> 582
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 307, 313, 315, 321, 409, 420, 449, 452, 487, 492, 505, 536,
546, 547, 561, 564, 572
<223> n = A,T,C or G

<400> 260
gcacgaggtt gggtggtact gtgtataata actccagatc cttgaccaag tttggagagt 60
cacttatggc catttgaaac caaatgaagg atcaaaggac taattatttt gaatacctct 120
gagtgttttc cccaagcttg agaagagttt cattcagcta taaaatgctc attgtgcaaa 180
tgagtggttt ccatgctgta taattaaagc attgccttta ataatatttt attaccttta 240
gcttgtcttt ttaatttgag gaaaatccaa acaatttaaa gtaaaacgtg ataaagacag 300
tttttcngga gananaaggg nagatcgcta tgtttattcc acttaatatc tatatcaaat 360
atttgtatca aaagcagact ctcactttaa aaatattctt ctaatggcna gaatctttтn 420
cctagattga gagtcagagc tcacatagna tnactgctgg taaatagaca cttagactat 480
agagctnagc tnaagttcca actanccaac tgcatttctg aatatgcttt ttattnaaag 540
gccagnnctt ttgccttttt nccncccctaa tnccttctat tg 582

<210> 261
<211> 783
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 137, 425, 445, 489, 500, 552, 554, 559, 570, 584, 587, 599,
615, 618, 626, 633, 645, 648, 649, 658, 669, 679, 684, 691,
698, 705, 718, 726, 727, 741, 753, 756, 765, 767, 770
<223> n = A,T,C or G

<400> 261
gcacgaggca aaatacagag ggtattttac catggacagg caacccattt ttccaggaca 60
actctttgca gcagagagct attctctttc ttttgcctta cactctcaac ctcactcttc 120
gagtgtctgc atcctanttt tccatggcca taagataagg aaccatgagt gttactctag 180
atgaggctgt ttcattgtgg gagctcatcc aggatccaag gtagattcat cagaagggta 240
agtataggag tgggaaccca aatctctact tttattttga ggccttctct cctcaatttt 300
aaattgtaaa atcaaactta aaactgggta tctgatggcc agttaaaaga ctgggtatct 360
gattgccagt taagagatgg tcatttatgc tcaccaccat tctcaagacg caggtgaggt 420

gacangcttg ctggggaatg ctgancgaat cccccaatgc cttcaggatt ctgggaatgg 480
tggctctgnt ttaaactggn tgacttttac aaagagccta cccgtcatgg ggggactggg 540
aagaaaaccc anangcagnt tctggcccan ggttacaccc ccanggntac cttgaaggnt 600
ttttggacat acctnttncc cccctnttac tgnttcatta gggcntcnnc aacccaantt 660
tccaagttnt ggcccttcna aaantttttt nttttccntt tccanggacc cccctggntt 720
cctggnnccc ccttttttata nccaaccttg ccnggnattt tttcncnttn aaagggaaat 780
aat 783

<210> 262
<211> 741
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 10, 98, 429, 441, 553, 567, 576, 599, 601, 615, 621, 635,
646, 649, 655, 659, 667, 674, 688, 708, 725, 731, 733
<223> n = A,T,C or G

<400> 262
tgaaccctan tgggcccggc cccctcgagt cgacggtatc gataagcttg atatcgaatt 60
cggcacgagt gtatattctg ttattatacc ccagattnaa gtgtatattc ttaggcagta 120
gttctggtta acatccttac tacataaaat ccacttacta tttaagtatt attctaacag 180
gaggtagaat agctgcctta aaaaatgtag tgatcgaatg gcagtttttc tgctgaatgg 240
aaattactga cacaaaattt ggttttggga gacattttcc tccttgttgt tgagttttcc 300
cattcacgga tagggcataa agcttggttt atagttgagg ggtgcaaaag gggaatagga 360
ttgggaaaat acagtgttcc agcaaaggtc tgacaaggta catcttggag aggattccta 420
ttctgctang tggcactgta ngtcttgaaa tactgtgtac tttccagaca aaggatagag 480
aaaaagacct tcactgggtg ggggagaaga aaacccttgt tcctagaaaa atcacaaaaa 540
aggcatcctt tancctatat tcccagnttt actggngcat ttgcttgatg tgactgacnc 600
ngattatttc ctttnactgg naaaaattcc tgccnctttg gatatnaang ggggnaccng 660
gaaaatnggg ggcnttgggg aaggaaanaa aaaaaattgg agggaccnaa ctttggaaaa 720
tgggntgctt nangccttaa g 741

<210> 263
<211> 437
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 37, 38, 316, 318, 335, 385, 414, 420, 436, 437
<223> n = A,T,C or G

<400> 263
ggcacgagag aatgtgttca cagacactat tttatannta tctgatgtgt actgtgtctg 60
gtggatgtga aagccatact tcttaaatct gatttgaaaa gcaaatctga ttatcacagc 120
cataattaaa tttggccagc cttccttcct ccctccctcc ttcacttcct tccttccttc 180
cgcctcgtgc cgaattcggc acgagcctga cctcactacc aaaaaaaaaa aaattcaaag 240
tgcctgaggt ttccaggcat tcttagctct atttacttac ttcccacctc aaatggcctt 300
agaattcaaa ttctgnanaa aatggattgc catanataat ccaatgaaaa tgggtcatat 360
tttgccatta atagaatcac agtcnacaag ggactaatag aattagtcac ttangtatcn 420
ttagatttgg gagacnn 437

<210> 264
<211> 706
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 674, 689, 698
<223> n = A,T,C or G

<400> 264
gcacgagcac cccaaggttt taggacaaaa tgggatgagt gaattcatgg cttgacagac 60
tgaacagaaa aatgaggctc cgtgctccat attcatgtgc atctgcccct catggtgaca 120
tgctaattgg ttggccggtg cacaagacaa ggaagtgcag gtttcctgtt gctcacacag 180
tgcttcctgt ctgctgtggc aggagccggg aggaagggag cgagccaaga ggggtgctgc 240
ccaccggaaa cgatggcgcg aggccgcaga gctaaatggg ggcctctcca gggagtgctc 300
tgttcacggc tccatcgctg ttagtaagta tcttgtgatt tcggaattta aatgaggttg 360
tgtttaacct gcataacatc tggcttttaa aatctgactt tattttcctt ttatttctgt 420
gcatcggctc aggcacactt agtggtggct taggtgttga agtcaggtta ccaaacagca 480
cgccctctct ttattctcag gctgcgtgtt tcattgattc tgaaggtcag atggctgtgt 540
tcaagttctg ttagtatatt ggtgtcagaa atgaaaagat gatgtaaccc tttataactt 600
cttaaaggct catatcatgt caggaaatta acctgtacga gttatggaca aatgcccatc 660
ctgatgattt tcanccatga aaatgaatna aaggggganaa gggcca 706

<210> 265
<211> 717
<212> DNA
<213> Homo sapiens

<400> 265
ggcacgagca gcattacggt ttatacacat gtccacaact cagcattgct ttcaaaatag 60
gaacacttta ttagtaaaga ggaagaaatt gcctaaacag actcagtgtc tttcccataa 120
caatcatctg ccaagccgca ggcctaacca ggaaatccca tttccttttg gcgttgtgtc 180
ctccaccaac agatacaacc ctgatgccaa atgttgtatg gtttgtaggt gttgtgagcc 240
aatgagggca tgcctagggc caaaggctgc cctttggaat gagggcaagg tcgtagactc 300
catcaaacaa caaatgcatc ctcctccaaa atcaaatgct caacacatgc agcctttcgt 360
atgcccatct ccccttttact cattttcatg gctgaaaatc atcaggatgg gcatttgtcc 420
ataactccta caggttaatt tcctgacatg atatgagcct ttaagaagtt ataaagggtt 480
acatcatctt ttcatttctg acaccaatat actaacagaa cttgaacaca gccatctgac 540
cttcagaatc aatgaaacac gcagcctgag aataaagaga gggcgtgctg tttggtaacc 600
tgacttcaac acctaagcca ccactaagtg tgcctgagcc gatgcacaga aataaaagga 660
aaataaagtc agattttaaa aagccagatg ttatgcaggg taaacacaac ctcatta 717

<210> 266
<211> 362
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 291, 296, 302, 308, 315, 323, 325, 335, 351
<223> n = A,T,C or G

<400> 266

ggcacgaggt tagatttaac ttccacagat gactcagcag aggataacta ctaatcagag 60
tacaacatca aaactgtaac cagtataatc actggattat gagcaactca aaatagctcc 120
agtttccaaa gggccataaa ctgcacatat cagtactatg tgcaattaac acataattta 180
ttatgaaaat gtggacatgc caggtaagta aggggattta ggttgacttt ttataatact 240
ttaaatttga aatgccattt ctgtggattg gatgacatct tccaggtgct ntaatnctgg 300
gntacctnct gatanatcct gananaaaga ggtancacca gcgtctatca nacctcaata 360
ca 362

<210> 267
<211> 692
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 153, 159, 160, 331, 362, 375, 393, 435, 438, 448, 450, 451,
460, 480, 486, 497, 509, 523, 530, 538, 539, 550, 669
<223> n = A,T,C or G

<400> 267
ggcacgaggt tagatttaac ttccacagat gactcagcag aggataacta ctaatcagag 60
tacaacatca aaactgtaac cagtataatc actggattat gagcaactca aaatagctcc 120
agtttccaaa gggccataac tggccctttt aanactttnn gcaattaaca cataatttat 180
tatgaaaatg tggacatgcc aggtaagtaa ggggatttag gttgactttt tataatactt 240
taaatttgaa atgccatttc tgtggattgg atgacatctt ccaggtgctt taatttggtt 300
tacctcctga tagatcctga cagaaagagg nagcaccagc gtctatcaaa cctcaataca 360
gngtgtgaaa cacangagag cctgcttttg tcnacacggg gaaacacatt gttatcacaa 420
cacacaaaag gcaanctncc aatggggnan ncttacctgn cctctcatat tgggggcaan 480
gaaaangggg cccccanatg gctgagtana tcccaaaaaa ccnccactan tggtcagnnt 540
gcttccccan acagccagat gactgaattt agcccaagct gcagtctcaa aaccagcttt 600
ctgacaatca gtaacaagaa catactggtc tgttgcagtg agctcaagtg ttgggtgttc 660
agtcaaaanc catggatgcc aatcatctcc ca 692

<210> 268
<211> 605
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 21, 100, 331, 382, 403, 420, 432, 448, 461, 481, 554, 555,
565, 591, 594, 597, 605
<223> n = A,T,C or G

<400> 268
cgtgccgaat tcggcacgag ngcacatatc agtactatgt gcaattaaca cataatttat 60
tatgaaaatg tggacatgcc aggtaagtaa ggggatttan gttgactttt tataatactt 120
taaatttgaa atgccatttc tgtggattgg atgacatctt ccaggtgctt taatttggtt 180
tacctcctga tagatcctga cagaaagagg tagcaccagc gtctatcaaa cctcaataca 240
gttgtaaaac acagagagcc tgcttgccta cacatggaga aacattgtta tcacaagaca 300
cagaaggcaa acttccaatc tggcatactt ncctgtcctc tcatatttgg ggcaatgaga 360
atggtggacc agatggcttg antagatgcc aaagaacacc canactgggc agcatgcttn 420
cccagacagc cngaagactg aaatttantc ccagctgcag ncttaaaccc ttttttttgac 480
nttccgtaac cagaccatac tttttttttct gatgcttttc ttaacttcat cttttccaat 540

taaattcatt agtnnaaccc taaanggggc ccgttttccg aaaaattttc nttnttnttt 600
ccccn 605

<210> 269
<211> 535
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 9, 185, 205, 213, 216, 220, 237, 251, 298, 304, 307, 331,
352, 447, 497, 500, 529
<223> n = A,T,C or G

<400> 269
gcacgaggng caaccccagg gtggggtctc tgggatgaac ctggagacct gagcttgcac 60
agcttccttg gtaaattgag gaggcatgga ccacaagatt gccaagctcc tttctatcca 120
aacttgatat tgttagattc catgatccag ttcatcacgg ttgatggctg aatctcatgc 180
actanaaaaa ggtaatataa aaganaaaaa tanaangatn ttcaagtgag tataaanacc 240
tttaatctca ntctttctag ttcaaagaga cggaacaatg agagatgctg gttcatanag 300
ctgntanatt taacttccac agatgactca ncagaggata actactaatc anagtacaac 360
atcaaaactg taaccagtat aatcactgga ttatgagcaa ctcaaaatag ctccagtttc 420
caaagggcca taaactgcca tatcaantac tatgtgccat taacccataa tttattatga 480
aaatgtggac atgccangtn agtaagggga tttagggtga ctttttatna tactt 535

<210> 270
<211> 803
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 677, 687, 768, 772, 786, 790, 793
<223> n = A,T,C or G

<400> 270
gcacgagggc aaccccaggg tggggtctct gggatgaacc tggagacctg agcttgcaca 60
gcttccttgg taaattgagg aggcatggac cacaagattg ccaagctcct ttctatccaa 120
acttgatatt gttagattcc atgatccagt tcatcacggt tgatggctga atctcatgca 180
ctagaaaaag gtaatataaa agaaaaaaat aaaaagatat tcaagtgagt ataaagacct 240
ttaatctcag tctttctagt tcaaagagac ggaacaatga gagatgctgg ttcatagagc 300
tgttagattt aacttccaca gatgactcag cagaggataa ctactaatca gagtacaaca 360
tcaaaactgt aaccagtata atcactggat tatgagcaac tcaaaatagc tccagtttcc 420
aaagggccat aaactgcaca tatcagtact atgtgcaatt aacacataat ttattatgaa 480
aatgtggaca tgccaggtaa gtaaggggat ttaggttgac tttttataat actttaaatt 540
tgaaatgcca tttctgtgga ttggatgaca tcttccaggt gctttaattt ggtttacctc 600
ctgatagatc ctgacagaaa gaggtagcac cagcgtctat caaacctcaa tacagttgta 660
aaacacagag agcctgnttt gcctacncat ggagaacatt gttatcacaa gacacagaag 720
ggaacttcca tctggctact tacctggctt tatttttggg gcaatganaa tnggggacc 780
aatggntgan tanatgccaa aaa 803

<210> 271
<211> 836
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> 623, 682, 718, 768, 781, 785, 787, 794, 804, 811, 816, 822,
831
<223> n = A,T,C or G

<400> 271
gcacgagggc aaccccaggg tggggtctct gggatgaacc tggagacctg agcttgcaca 60
gcttccttgg taaattgagg aggcatggac cacaagattg ccaagctcct ttctatccaa 120
acttgatatt gttagattcc atgatccagt tcatcacggt tgatggctga atctcatgca 180
ctagaaaaag gtaatataaa agaaaaaaat aaaaagatat tcaagtgagt ataaagacct 240
ttaatctcag tctttctagt tcaaagagac ggaacaatga gagatgctgg ttcatagagc 300
tgttagattt aacttccaca gatgactcag cagaggataa ctactaatca gagtacaaca 360
tcaaaactgt aaccagtata atcactggat tatgagcaac tcaaaatagc tccagtttcc 420
aaagggccat aaactgcaca tatcagtact atgtgcaatt aacacataat ttattatgaa 480
aatgtggaca tgccaggtaa gtaaggggat ttaggttgac tttttataat actttaaatt 540
tgaaatgcca tttctgtgga ttggatgaca tcttccaggt gctttaattt ggtttacctc 600
ctgatagatc ctgacagaaa gangtagcac cagcgtctat caaacctcaa tacagttgta 660
aaacacagag agcctgcttt gnctacacat ggagaaacat tgtatcacaa gacacagnaa 720
ggcaacttcc atctgggata ctacctgtct ctctatttgg ggcatganat ggggacaatg 780
ntgananatg caanacacca atgngagctg nttccnacag cnatatgatt ntccat 836

<210> 272
<211> 203
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 19, 42, 46, 53, 62, 63, 74, 84, 89, 109, 112, 119, 120, 128,
133, 139, 144, 148, 176, 187, 194, 197, 201
<223> n = A,T,C or G

<400> 272
ggagaattgg gcccgtcang ggtgcattct gcatcacctg anttcnaaat ctnagtcaat 60
cnncgtacta atantatcaa catnatttna acctgatctc cactgcttng tnattttcnn 120
ttcactgncc ctntcactng aacntctntt cacacagcca ccccccatta tctggntggc 180
acctccncca aatnccncct naa 203

<210> 273
<211> 594
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 10, 17, 55, 80, 96, 156, 164, 171, 176, 180, 204, 211, 224,
242, 253, 265, 282, 284, 292, 313, 314, 319, 329, 338, 340,
348, 357, 359, 370, 377, 390, 396, 407, 420, 437, 439, 440,
456, 457, 479, 490, 520, 524, 541, 546, 557, 571, 575
<223> n = A,T,C or G

<400> 273
attcgggccn ctggatncgt gctcgagcgg ccgccgctgt gatggatatc tgcanaattc 60
ggcttctgga gagagctttn tttttgatgg ttgcangtac tctcgatgga gttggtgggt 120
gtggttatct ctctctggtt gtctttctgt ataaanttct tgcnctgact ncctanctcn 180
cctccccctg gtccttccct tagngtaaca nctggtaatc cctntcttct ttgctctcct 240
tncttctcct gancgatttc ctctntttgt ccactctcag gnanaaccct gntggtcagt 300
gttcatgact tcnngaagnt cgacccgcna aatagggncn cacggatnat gttgaancng 360
ggaagggagn gtccaanttc tctgttccan aggctnagcc tagaganaat gatgggagan 420
ggtttactga gatcatngnn tcttctcgaa gatatnnttt agggtggtcc cccataagng 480
aatttctcan cttcaaatct tctaatacat tactgaacan ctgncatttg ttacgccaca 540
nattgnaatt ctccatntct ttttagaaac nattncaagg tcatttattt ccct 594

<210> 274
<211> 229
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 24, 31, 38, 49, 55, 62, 63, 75, 86, 113, 116, 122, 127, 142,
148, 150, 162, 171, 176, 184, 185, 190, 201, 207, 212, 215,
218, 227
<223> n = A,T,C or G

<400> 274
ctactcactg tccggccatt tggncctctg natgcatnct caagcagcnc gccantatga 60
tnnatatctg cacanttcag cttctngaga aaactatgtt ttaaacagtt gcntanactt 120
anaatanaaa tcgagtaagg tntagatnan tctctaacga tngaattatt ntacanaggg 180
gtanncgatn accaggagta nctaganttg ancancancc taggtcnga 229

<210> 275
<211> 651
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 8, 18, 25, 34, 36, 87, 139, 140, 165, 168, 187, 222, 237,
262, 268, 271, 286, 288, 296, 301, 315, 329, 338, 356, 359,
365, 368, 402, 416, 445, 490, 500, 522, 528, 538, 542, 550,
562, 565, 569, 577, 581, 587, 589, 597, 610, 640
<223> n = A,T,C or G

<400> 275
atatctgntg aatacggntt cctgnaaaaa ggtntnattt agatggttga gtccgactca 60
gcgatgcgac ttggtgggtg tggtcantct cttatggttg agattgttca tgatatcatg 120
ccctgagatg cctggactnn cctcaccgga gatcctagac ggtgntancc cctgagagtc 180
tctctcntcc tgctctccta acttctccta atgatccctc cnattgtcta ctgtccnatt 240
gaacccttct tgcttatgta tncaatcntt nacggtgtcc ctgctnantt tttganacga 300
ngctcataat ggacngggga aggatagtnt gaataatntc ctgtataccc acgccnacnt 360
ctacnctntg atctgacacg gtatactgat ttgtgctgtt cncttcacca ttccantttc 420
taccttccgc tcatatgctc tgtangctac accctctgtg actgctttct cagttacgtg 480
caacaaggtn ttcatatctn gaactcttac accattctag anggatcncc cctcgganaa 540
antttggaan aacaagcaag ancanaatnc ctctctngtg ntacacnanc cggcttncgt 600

atcctcgttn aaggaattcc ccgctttcct gggctttaan tctcctaaac t 651

<210> 276
<211> 392
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 18, 24, 27, 35, 41, 49, 55, 60, 86, 87, 92, 96, 101, 115,
140, 156, 157, 166, 188, 189, 197, 206, 210, 222, 254, 256,
264, 265, 288, 289, 293, 300, 305, 311, 312, 320, 332, 333,
343, 362, 366, 371, 384
<223> n = A,T,C or G

<400> 276
acccccccng aattacgntg gccnatntaa aagtncatca ngcctccang caacntatcn 60
tttcattacc acccacactc ctgttnnggg anggangtgg naatccttca ccatnctaat 120
gtatgtggtg ctctcatgcn ggtacgtata atctanncgt cccctnaaat cggatgcttc 180
tgtaatcnnc agtcacnaaa ccacanggan caactgaaac angatttggc taacagccaa 240
tgtctgggcc ctcncnaatc cctnnaatat ctcctacacc tgtagtanna atnaactacn 300
ctacnctatt nnacacacgn tttaggttgt annaccaagc ccntattgag tgaaatcgtt 360
tntatngtat naaatgccaa aagntgcggt aa 392

<210> 277
<211> 212
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 11, 17, 22, 25, 29, 38, 57, 61, 64, 73, 80, 108, 110, 115,
181, 186, 189, 200
<223> n = A,T,C or G

<400> 277
ggtttgcggg natgaanttt gnaanaatna actttagnga taacccaccc accaatncct 60
nctnagtatt tgncaacctn aaaactacag ctctctccag atagactntn ccttnctgat 120
ttcaactctc cttggactgg tcagcctgaa gggtggtaat gactcaccaa cgctactaat 180
nccttnttna ctgtgccttn atttttcgc ct 212

<210> 278
<211> 269
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1, 2, 3, 37, 55, 60, 63, 78, 97, 101, 142, 145, 150, 170,
186, 189, 202, 204, 216, 243, 247, 251, 256, 262, 267
<223> n = A,T,C or G

<400> 278
nnntccatcc taataccact cactatcggg ctcgaancgg ccgcccgggc acgtntcttn 60

tgngacagga tctgaatnaa gggtggtttg taacttnact naaaattctg aaatgatcct 120
gcatcagaca gggttctccg tntanaatan agtttccctg ttagttatcn agcctgggca 180
ggggangana gattcgagga cntntgaaat gaaggnatta tttaggatgg gtgactcatt 240
ccnaccnttc ncgctnacca gnccganga 269

<210> 279
<211> 266
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 9, 12, 19, 32, 34, 51, 52, 60, 65, 68, 72, 128, 132, 142,
144, 149, 174, 181, 182, 203, 208, 209, 244, 247, 254
<223> n = A,T,C or G

<400> 279
gttggtgant cngtttggng tcttcctggt gntnggtgtt tggtgtgttg nnttgttgtn 60
gggtngtntt tntggagaga gttgtagttc gtgagggttg cagtgtactt actatggagc 120
ctaaggangt gngctaactt anantgatna ctttgctcat actgccctgc cctnaatgcc 180
nngcttgcct caccctggtg ccnaaccnna tcgaacacct aacagtctag taggcttctt 240
gctntancag actnctcttg aggatc 266

<210> 280
<211> 317
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 8, 15, 21, 24, 36, 41, 72, 97, 112, 114, 117, 142, 151, 167,
176, 177, 178, 224, 231, 238, 247, 277, 285, 293, 299, 304
<223> n = A,T,C or G

<400> 280
acactgtnag gtgtntggaa ntgntgtagg catagncttt ntggcacaga gttggagccg 60
tgaggcatag cntgtactta ctatggagcc taaggangga gctaacttat antnatnact 120
ttgctcatac tgccctgctc tnaatgccta ngcttgcctc accctgntgc cttacnnnat 180
cgaacaccta cgcggtctat aggcttcttg ctctatcagg actnctcttc nagcttcntc 240
gcctcanttg actcactgtg ctcggtcgtt ctactgngat ccagncgctc atnaacctna 300
cttnggacgc aggtcat 317

<210> 281
<211> 174
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 2, 47, 111, 125, 140, 147, 150, 154, 159
<223> n = A,T,C or G

<400> 281
gnggtcatat tatacatcta aggcatggcc aactccacgc cattatnaat tccatcgtac 60

tgtccgcagt cactacttat aacctagatt aatagtgcct ggccccggac ngtctgtgca 120
atctnccgcc ataccaattn cgatccncan accncgatna cactcctcct tact 174

<210> 282
<211> 169
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 73, 108, 113, 115, 146, 161
<223> n = A,T,C or G

<400> 282
atcgcagctt gtacgatcgt catataacgc gcatgtgcgg atcgcttcag cgccgcccga 60
ctgtcagaag gangagatct tttttatcac ttgtttgttt gactatanat aanancgact 120
acagcattga tgtgtgtcct caaganttgt ctgggtctga naaagctga 169

<210> 283
<211> 157
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 3, 5, 36, 50, 67, 80, 87, 130, 133, 139, 145
<223> n = A,T,C or G

<400> 283
ggntntctaa gatcgcagtt gtacgatcgt catatnacgc gcatgtgcgn atcgcttcac 60
gtcgccnggc tgtccaggan atgcatntca acataatgtg cactctatat ggttattgat 120
taatacgagn tangagcana tatcngatac aacacaa 157

<210> 284
<211> 133
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 3, 11, 21, 36, 37, 92, 102, 122
<223> n = A,T,C or G

<400> 284
ggngtggtgt nagatacgca ngctgggacg aatcgnntca tagtacggcg catgtgttga 60
tcaattctga aaatccatcc cggcgcgctc ancatgcact anagggcaat cgcctatatg 120
antcgtatta caa 133

<210> 285
<211> 194
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> 1, 3, 6, 26, 31, 35, 38, 55, 57, 62, 68, 77, 79, 104, 107,
119, 120, 124, 129, 130, 136, 146, 149, 156, 161, 165, 172,
179, 191
<223> n = A,T,C or G

<400> 285
ntntgngtga tgatacccaa gctggntacc nactngantc caattaccgg ctcantntgc 60
tngaaacngc ttcgatngnc tcctggcatg tacttgaaac aggntanata tctaatagnn 120
tacngtgtnn ttttcnatca tacagnttnt atattncact ncctnccatt cntttctant 180
ctctctctcc ntat 194

<210> 286
<211> 134
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 6, 7, 29, 41, 66, 73, 86, 93, 108, 128
<223> n = A,T,C or G

<400> 286
gagggnntat gataccaagc tggtacganc ccgtcactat nacggcccag tgtgtggatc 60
cgctanctgg tcncgcgatg tctacncaca cgngaactgc ctctcgcnaa gatctcctct 120
cctctccnaa gaga 134

<210> 287
<211> 119
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 2, 26, 78, 83, 101
<223> n = A,T,C or G

<400> 287
tngggtatat ccagttgtac actggncata tacgcgcatt atgatcgttt cacgcccgga 60
gtacggcatc attacganat ggnctcattc gtttaccttt ntcgctggac acaagcgtc 119

<210> 288
<211> 170
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 4, 13, 39, 44, 107, 122, 158, 162
<223> n = A,T,C or G

<400> 288
gggntgagat acncaagttg gtacgagtcg gatcatatna cggncgccat tttctggaat 60
ccgcttacgt ggtcccggcg aagtactttt tcatgccttg caaaatngcg ttactgcact 120

ancttgctta acctatgagt ggggtctttc ataccccntc tntcatggaa 170

<210> 289
<211> 126
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 19, 24, 46, 74, 84, 86, 109, 121
<223> n = A,T,C or G

<400> 289
ggccaattgg ggcctctana tgcntgctcg aacgggcgcc aatttnatgg atatctccaa 60
aattcggctt accntggtcg cggncnaagt acttaactca atccatctnt cactcaggat 120
naatgc 126

<210> 290
<211> 126
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 19, 24, 46, 74, 84, 86, 109, 121
<223> n = A,T,C or G

<400> 290
ggccaattgg ggcctctana tgcntgctcg aacgggcgcc aatttnatgg atatctccaa 60
aattcggctt accntggtcg cggncnaagt acttaactca atccatctnt cactcaggat 120
naatgc 126

<210> 291
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer

<400> 291
cacatgtgca tccaggggag tcagttc 27

<210> 292
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer

<400> 292
cgttagaatt catcaattcc tccgaagctc aaac 34

<210> 293
<211> 702
<212> DNA
<213> Homo sapiens

<400> 293
atgcagcatc accaccatca ccaccacatg tgcatccagg ggagtcagtt caacgtcgag 60
gtcggcagaa gtgacaagct ttccctgcct ggctttgaga acctcacagc aggatataac 120
aaatttctca ggcccaattt tggtggagaa cccgtacaga tagcgctgac tctggacatt 180
gcaagtatct ctagcatttc agagagtaac atggactaca cagccaccat atacctccga 240
cagcgctgga tggaccagcg gctggtgttt gaaggcaaca agagcttcac tctggatgcc 300
cgcctcgtgg agttcctctg ggtgccagat acttacattg tggagtccaa gaagtccttc 360
ctccatgaag tcactgtggg aaacaggctc atccgcctct tctccaatgg cacggtcctg 420
tatgccctca gaatcacgac aactgttgca tgtaacatgg atctgtctaa ataccccatg 480
gacacacaga catgcaagtt gcagctggaa agctggggct atgatggaaa tgatgtggag 540
ttcacctggc tgagagggaa cgactctgtg cgtggactgg aacacctgcg gcttgctcag 600
tacaccatag agcggtattt caccttagtc accagatcgc agcaggagac aggaaattac 660
actagattgg tcttacagtt tgagcttcgg aggaattgat ga 702

<210> 294
<211> 232
<212> PRT
<213> Homo sapiens

<400> 294
Met Gln His His His His His His His Met Cys Ile Gln Gly Ser Gln
 1   5   10   15
Phe Asn Val Glu Val Gly Arg Ser Asp Lys Leu Ser Leu Pro Gly Phe
            20   25   30
Glu Asn Leu Thr Ala Gly Tyr Asn Lys Phe Leu Arg Pro Asn Phe Gly
        35   40   45
Gly Glu Pro Val Gln Ile Ala Leu Thr Leu Asp Ile Ala Ser Ile Ser
    50   55   60
Ser Ile Ser Glu Ser Asn Met Asp Tyr Thr Ala Thr Ile Tyr Leu Arg
65   70   75   80
Gln Arg Trp Met Asp Gln Arg Leu Val Phe Glu Gly Asn Lys Ser Phe
                85   90   95
Thr Leu Asp Ala Arg Leu Val Glu Phe Leu Trp Val Pro Asp Thr Tyr
            100   105   110
Ile Val Glu Ser Lys Lys Ser Phe Leu His Glu Val Thr Val Gly Asn
        115   120   125
Arg Leu Ile Arg Leu Phe Ser Asn Gly Thr Val Leu Tyr Ala Leu Arg
    130   135   140
Ile Thr Thr Thr Val Ala Cys Asn Met Asp Leu Ser Lys Tyr Pro Met
145   150   155   160
Asp Thr Gln Thr Cys Lys Leu Gln Leu Glu Ser Trp Gly Tyr Asp Gly
                165   170   175
Asn Asp Val Glu Phe Thr Trp Leu Arg Gly Asn Asp Ser Val Arg Gly
            180   185   190
Leu Glu His Leu Arg Leu Ala Gln Tyr Thr Ile Glu Arg Tyr Phe Thr
        195   200   205
Leu Val Thr Arg Ser Gln Gln Glu Thr Gly Asn Tyr Thr Arg Leu Val
    210   215   220
Leu Gln Phe Glu Leu Arg Arg Asn

225 230

<210> 295
<211> 204
<212> PRT
<213> Homo sapiens

<400> 295
Met Val Cys Gly Gly Phe Ala Cys Ser Lys Asn Cys Leu Cys Ala Leu
1 5 10 15
Asn Leu Leu Tyr Thr Leu Val Ser Leu Leu Leu Ile Gly Ile Ala Ala
20 25 30
Trp Gly Ile Gly Phe Gly Leu Ile Ser Ser Leu Arg Val Val Gly Val
35 40 45
Val Ile Ala Val Gly Ile Phe Leu Phe Leu Ile Ala Leu Val Gly Leu
50 55 60
Ile Gly Ala Val Lys His His Gln Val Leu Leu Phe Phe Tyr Met Ile
65 70 75 80
Ile Leu Leu Leu Val Phe Ile Val Gln Phe Ser Val Ser Cys Ala Cys
85 90 95
Leu Ala Leu Asn Gln Glu Gln Gln Gly Gln Leu Leu Glu Val Gly Trp
100 105 110
Asn Asn Thr Ala Ser Ala Arg Asn Asp Ile Gln Arg Asn Leu Asn Cys
115 120 125
Cys Gly Phe Arg Ser Val Asn Pro Asn Asp Thr Cys Leu Ala Ser Cys
130 135 140
Val Lys Ser Asp His Ser Cys Ser Pro Cys Ala Pro Ile Ile Gly Glu
145 150 155 160
Tyr Ala Gly Glu Val Leu Arg Phe Val Gly Gly Ile Gly Leu Phe Phe
165 170 175
Ser Phe Thr Glu Ile Leu Gly Val Trp Leu Thr Tyr Arg Tyr Arg Asn
180 185 190
Gln Lys Asp Pro Arg Ala Asn Pro Ser Ala Phe Leu
195 200

<210> 296
<211> 615
<212> DNA
<213> Homo sapiens

<400> 296
atggtttgcg ggggcttcgc gtgttccaag aactgcctgt gcgccctcaa cctgctttac 60
accttggtta gtctgctgct aattggaatt gctgcgtggg gcattggctt cgggctgatt 120
tccagtctcc gagtggtcgg cgtggtcatt gcagtgggca tcttcttgtt cctgattgct 180
ttagtgggtc tgattggagc tgtaaaacat catcaggtgt tgctattttt ttatatgatt 240
attctgttac ttgtatttat tgttcagttt tctgtatctt gcgcttgttt agccctgaac 300
caggagcaac agggtcagct tctggaggtt ggttggaaca atacggcaag tgctcgaaat 360
gacatccaga gaaatctaaa ctgctgtggg ttccgaagtg ttaacccaaa tgacacctgt 420
ctggctagct gtgttaaaag tgaccactcg tgctcgccat gtgctccaat cataggagaa 480
tatgctggag aggttttgag atttgttggt ggcattggcc tgttcttcag ttttacagag 540
atcctgggtg tttggctgac ctacagatac aggaaccaga aagacccccg cgcgaatcct 600
agtgcattcc tttga 615

<210> 297
<211> 1831
<212> DNA
<213> Homo sapiens

<400> 297
gccgcgccgc ccgcacgtgg cagccccagg ccccggcccc ccacccacgt ctgcgttgct 60
gccccgcctg ggccaggccc aaaggcaagg acaaagcagc tgtcagggaa cctccgccgg 120
agtcgaattt acgtgcagct gccggcaacc acaggttcca agatggtttg cgggggcttc 180
gcgtgttcca agaactgcct gtgcgccctc aacctgcttt acaccttggt tagtctgctg 240
ctaattggaa ttgctgcgtg gggcattggc ttcgggctga tttccagtct ccgagtggtc 300
ggcgtggtca ttgcagtggg catcttcttg ttcctgattg ctttagtggg tctgattgga 360
gctgtaaaac atcatcaggt gttgctattt ttttatatga ttattctgtt acttgtattt 420
attgttcagt tttctgtatc ttgcgcttgt ttagccctga accaggagca acagggtcag 480
cttctggagg ttggttggaa caatacggca agtgctcgaa atgacatcca gagaaatcta 540
aactgctgtg ggttccgaag tgttaaccca aatgacacct gtctggctag ctgtgttaaa 600
agtgaccact cgtgctcgcc atgtgctcca atcataggag aatatgctgg agaggttttg 660
agatttgttg gtggcattgg cctgttcttc agttttacag agatcctggg tgtttggctg 720
acctacagat acaggaacca gaaagacccc cgcgcgaatc ctagtgcatt cctttgatga 780
gaaaacaagg aagatttcct ttcgtattat gatcttgttc actttctgta attttctgtt 840
aagctccatt tgccagttta aggaaggaaa cactatctgg aaaagtacct tattgatagt 900
ggaattatat atttttactc tatgtttctc tacatgtttt tttctttccg ttgctgaaaa 960
atatttgaaa cttgtggtct ctgaagctcg gtggcacctg gaatttactg tattcattgt 1020
cgggcactgt ccactgtggc ctttcttagc atttttacct gcagaaaaac tttgtatggt 1080
accactgtgt tggttatatg gtgaatctga acgtacatct cactggtata attatatgta 1140
gcactgtgct gtgtagatag ttcctactgg aaaaagagtg gaaatttatt aaaatcagaa 1200
agtatgagat cctgttatgt taagggaaat ccaaattccc aatttttttt ggtcttttta 1260
ggaaagatgt gttgtggtaa aaagtgttag tataaaaatg gataatttac ttgtgtcttt 1320
tatgattaca ccaatgtatt ctagaaatag ttatgtctta ggaaattgtg gtttaatttt 1380
tgacttttac aggtaagtgc aaaggagaag tggtttcatg aaatgttcta atgtataata 1440
acatttacct tcagcctcca tcagaatgga acgagttttg agtaatcagg aagtatatct 1500
atatgatctt gatattgttt tataataatt tgaagtctaa aagactgcat ttttaaacaa 1560
gttagtatta atgcgttggc ccacgtagca aaaagatatt tgattatctt aaaaattgtt 1620
aaataccgtt ttcatgaaag ttctcagtat tgtaacagca acttgtcaaa cctaagcata 1680
tttgaatatg atctcccata atttgaaatt gaaatcgtat tgtgtggctc tgtatattct 1740
gttaaaaaat taaaggacag aaacctttct ttgtgtatgc atgtttgaat taaaagaaag 1800
taatggaaga attgatcgat gaaaaaaaaa a 1831

<210> 298
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer

<400> 298
cactgcgctt gtttagccct gaacc 25

<210> 299
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer

<400> 299
ccgaagaatt catcaaaatc tcaaaacctc tcc 33

<210> 300
<211> 258
<212> DNA
<213> Homo sapiens

<400> 300
atgcagcatc accaccatca ccaccactgc gcttgtttag ccctgaacca ggagcaacag 60
ggtcagcttc tggaggttgg ttggaacaat acggcaagtg ctcgaaatga catccagaga 120
aatctaaact gctgtgggtt ccgaagtgtt aacccaaatg acacctgtct ggctagctgt 180
gttaaaagtg accactcgtg ctcgccatgt gctccaatca taggagaata tgctggagag 240
gttttgagat tttgatga 258

<210> 301
<211> 84
<212> PRT
<213> Homo sapiens

<400> 301
Met Gln His His His His His His His Cys Ala Cys Leu Ala Leu Asn
 1   5   10   15
Gln Glu Gln Gln Gly Gln Leu Leu Glu Val Gly Trp Asn Asn Thr Ala
            20   25   30
Ser Ala Arg Asn Asp Ile Gln Arg Asn Leu Asn Cys Cys Gly Phe Arg
        35   40   45
Ser Val Asn Pro Asn Asp Thr Cys Leu Ala Ser Cys Val Lys Ser Asp
    50   55   60
His Ser Cys Ser Pro Cys Ala Pro Ile Ile Gly Glu Tyr Ala Gly Glu
65   70   75   80
Val Leu Arg Phe

<210> 302
<211> 1598
<212> DNA
<213> Homo sapiens

<400> 302
tctaaggcac agtatcattt tcagtactga caaggtgttt cattttatat ggttgtcata 60
ataaggcaaa ttcattttgt acgctttata ttttcaaacc cagcaagctc taaaagggac 120
ataaaataac ttagaaattg ggaaagacgg gcatgtgtat gatcatgata ttcatcccct 180
gccccagaac aaatgggagg aacacattgc ccaaaactca cgtctggagc tctttcaaca 240
tgtctccctg atgaccctgg acagcatcat gaagtgtgcc ttcagccacc agggcagcat 300
ccagttggac agtaccctgg actcatacct gaaagcagtg ttcaacctta gcaaaatctc 360
caaccagcgc atgaacaatt ttctacatca caacgacctg gttttcaaat tcagctctca 420
aggccaaatc ttttctaaat ttaaccaaga acttcatcag ttcacagaga aagtaatcca 480
ggaccggaag gagtctctta aggataagct aaaacaagat actactcaga aaaggcgctg 540

ggattttctg gacatacttt tgagtgccaa aagcgaaaac accaaagatt tctctgaagc 600
agatctccag gctgaagtga aaacgttcat gtttgcagga catgacacca catccagtgc 660
tatctcctgg atcctttact gcttggcaaa gtaccctgag catcagcaga gatgccgaga 720
tgaaatcagg gaactcctag gggatgggtc ttctattacc tgggaacacc tgagccagat 780
gccttacacc acgatgtgca tcaaggaatg cctccgcctc tacgcaccgg tagtaaacat 840
atcccggtta ctcgacaaac ccatcacctt tccagatgga cgctccttac ctgcaggaat 900
aactgtgttt atcaatattt gggctcttca ccacaacccc tatttctggg aagaccctca 960
ggtctttaac cccttgagat tctccaggga aaattctgaa aaaatacatc cctatgcctt 1020
cataccattc tcagctggat taaggaactg cattgggcag cattttgcca taattgagtg 1080
taaagtggca gtggcattaa ctctgctccg cttcaagctg gctccagacc actcaaggcc 1140
tccccagcct gttcgtcaag ttgtcctcaa gtccaagaat ggaatccatg tgtttgcaaa 1200
aaaagtttgc taattttaag tcctttcgta taagaattaa tgagacaatt ttcctaccaa 1260
aggaagaaca aaaggataaa tataatacaa aatatatgta tatggttgtt tgacaaatta 1320
tataacttag gatacttctg actggttttg acatccatta acagtaattt taatttcttt 1380
gctgtatctg gtgaaaccca caaaaacacc tgaaaaaact caagctgact tccactgcga 1440
agggaaatta ttggtttgtg taactagtgg tagagtggct ttcaagcata gtttgatcaa 1500
aactccactc agtatctgca ttacttttat ctctgcaaat atctgcatga tagctttatt 1560
ctcagttatc tttccccata ataaaaaata tctgccac 1598

<210> 303
<211> 963
<212> DNA
<213> Homo sapiens

<400> 303
atgaccctgg acagcatcat gaagtgtgcc ttcagccacc agggcagcat ccagttggac 60
agtaccctgg actcatacct gaaagcagtg ttcaacctta gcaaaatctc caaccagcgc 120
atgaacaatt ttctacatca caacgacctg gttttcaaat tcagctctca aggccaaatc 180
ttttctaaat ttaaccaaga acttcatcag ttcacagaga aagtaatcca ggaccggaag 240
gagtctctta aggataagct aaaacaagat actactcaga aaaggcgctg ggattttctg 300
gacatacttt tgagtgccaa aagcgaaaac accaaagatt tctctgaagc agatctccag 360
gctgaagtga aaacgttcat gtttgcagga catgacacca catccagtgc tatctcctgg 420
atcctttact gcttggcaaa gtaccctgag catcagcaga gatgccgaga tgaaatcagg 480
gaactcctag gggatgggtc ttctattacc tgggaacacc tgagccagat gccttacacc 540
acgatgtgca tcaaggaatg cctccgcctc tacgcaccgg tagtaaacat atcccggtta 600
ctcgacaaac ccatcacctt tccagatgga cgctccttac ctgcaggaat aactgtgttt 660
atcaatattt gggctcttca ccacaacccc tatttctggg aagaccctca ggtctttaac 720
cccttgagat tctccaggga aaattctgaa aaaatacatc cctatgcctt cataccattc 780
tcagctggat taaggaactg cattgggcag cattttgcca taattgagtg taaagtggca 840
gtggcattaa ctctgctccg cttcaagctg gctccagacc actcaaggcc tccccagcct 900
gttcgtcaag ttgtcctcaa gtccaagaat ggaatccatg tgtttgcaaa aaaagtttgc 960
taa 963

<210> 304
<211> 2015
<212> DNA
<213> Homo sapiens

<400> 304
ggcattttga aagcccagtg ttgcccaggg ggcatctcct ttgtgtttat gagagacctg 60
cattctccct ggctcagttc tctcaggctc tccagagctc aggacctctg agaagaatgg 120
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tcctgaaaag acaagatccc aaaagtgctg ttagccacaa aatccttgaa tcctgggttg 480
gtcgaggact tgtgaccctg gatggttcta aatggaaaaa gcaccgccag attgtgaaac 540
ctggcttcaa catcagcatt ctgaaaatat tcatcaccat gatgtctgag agtgttcgga 600
tgatgctgaa caaatgggag gaacgcattg cccaaaactc acgtctggag ctctttcaac 660
atgtctccct gatgaccctg gacagcatca tgaagtgtgc cttcagccac cagggcagca 720
tccagttgga cagtaccctg gactcatacc tgaaagcagt gttcaacctt agcaaaatct 780
ccaaccagcg catgaacaat tttctacatc acaacgacct ggttttcaaa ttcagctctc 840
aaggccaaat cttttctaaa tttaaccaag aacttcatca gttcacagag aaagtaatcc 900
aggaccggaa ggagtctctt aaggataagc taaaacaaga tactactcag aaaaggcgct 960
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gtaaagtggc agtggcatta actctgctcc gcttcaagct ggctccagac cactcaaggc 1560
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aaggaagaac aaaaggataa atataataca aaatatatgt atatggttgt ttgacaaatt 1740
atataactta ggatacttct gactggtttt gacatccatt aacagtaatt ttaatttctt 1800
tgctgtatct ggtgaaaccc acaaaaacac ctgaaaaaac tcaagctgac ttccactgcg 1860
aagggaaatt attggtttgt gtaactagtg gtagagtggc tttcaagcat agtttgatca 1920
aaactccact cagtatctgc attactttta tctctgcaaa tatctgcatg atagctttat 1980
tctcagttat ctttccccaa taataaaaaa tagct 2015

<210> 305
<211> 1518
<212> DNA
<213> Homo sapiens

<400> 305
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agagccctgc acctgtttcc tgcaccccct gcccactggt tctatggcca caaggagttt 180
tacccagtaa aggagtttga ggtgtatcat aagctgatgg aaaaataccc atgtgctgtt 240
cccttgtggg ttggaccctt tacgatgttc ttcagtgtcc atgacccaga ctatgccaag 300
attctcctga aaagacaaga tcccaaaagt gctgttagcc acaaaatcct tgaatcctgg 360
gttggtcgag gacttgtgac cctggatggt tctaaatgga aaaagcaccg ccagattgtg 420
aaacctggct tcaacatcag cattctgaaa atattcatca ccatgatgtc tgagagtgtt 480
cggatgatgc tgaacaaatg ggaggaacgc attgcccaaa actcacgtct ggagctcttt 540
caacatgtct ccctgatgac cctggacagc atcatgaagt gtgccttcag ccaccagggc 600
agcatccagt tggacagtac cctggactca tacctgaaag cagtgttcaa ccttagcaaa 660
atctccaacc agcgcatgaa caattttcta catcacaacg acctggtttt caaattcagc 720
tctcaaggcc aaatcttttc taaatttaac caagaacttc atcagttcac agagaaagta 780
atccaggacc ggaaggagtc tcttaaggat aagctaaaac aagatactac tcagaaaagg 840
cgctgggatt ttctggacat acttttgagt gccaaaagcg aaaacaccaa agatttctct 900
gaagcagatc tccaggctga agtgaaaacg ttcatgtttg caggacatga caccacatcc 960
agtgctatct cctggatcct ttactgcttg gcaaagtacc ctgagcatca gcagagatgc 1020
cgagatgaaa tcagggaact cctaggggat gggtcttcta ttacctggga acacctgagc 1080

```
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ggaataactg tgtttatcaa tatttgggct cttcaccaca acccctattt ctgggaagac 1260
cctcaggtct ttaacccctt gagattctcc agggaaaatt ctgaaaaaat acatccctat 1320
gccttcatac cattctcagc tggattaagg aactgcattg ggcagcattt tgccataatt 1380
gagtgtaaag tggcagtggc attaactctg ctccgcttca agctggctcc agaccactca 1440
aggcctcccc agcctgttcg tcaagttgtc ctcaagtcca agaatggaat ccatgtgttt 1500
gcaaaaaaag tttgctaa                                              1518
```

<210> 306
<211> 320
<212> PRT
<213> Homo sapiens

<400> 306

```
Met Thr Leu Asp Ser Ile Met Lys Cys Ala Phe Ser His Gln Gly Ser
                  5                  10                  15

Ile Gln Leu Asp Ser Thr Leu Asp Ser Tyr Leu Lys Ala Val Phe Asn
             20                  25                  30

Leu Ser Lys Ile Ser Asn Gln Arg Met Asn Asn Phe Leu His His Asn
         35                  40                  45

Asp Leu Val Phe Lys Phe Ser Ser Gln Gly Gln Ile Phe Ser Lys Phe
     50                  55                  60

Asn Gln Glu Leu His Gln Phe Thr Glu Lys Val Ile Gln Asp Arg Lys
 65                  70                  75                  80

Glu Ser Leu Lys Asp Lys Leu Lys Gln Asp Thr Thr Gln Lys Arg Arg
                 85                  90                  95

Trp Asp Phe Leu Asp Ile Leu Leu Ser Ala Lys Ser Glu Asn Thr Lys
            100                 105                 110

Asp Phe Ser Glu Ala Asp Leu Gln Ala Glu Val Lys Thr Phe Met Phe
        115                 120                 125

Ala Gly His Asp Thr Thr Ser Ser Ala Ile Ser Trp Ile Leu Tyr Cys
    130                 135                 140

Leu Ala Lys Tyr Pro Glu His Gln Gln Arg Cys Arg Asp Glu Ile Arg
145                 150                 155                 160

Glu Leu Leu Gly Asp Gly Ser Ser Ile Thr Trp Glu His Leu Ser Gln
                165                 170                 175

Met Pro Tyr Thr Thr Met Cys Ile Lys Glu Cys Leu Arg Leu Tyr Ala
            180                 185                 190

Pro Val Val Asn Ile Ser Arg Leu Leu Asp Lys Pro Ile Thr Phe Pro
        195                 200                 205
```

```
Asp Gly Arg Ser Leu Pro Ala Gly Ile Thr Val Phe Ile Asn Ile Trp
    210                 215                 220

Ala Leu His His Asn Pro Tyr Phe Trp Glu Asp Pro Gln Val Phe Asn
225                 230                 235                 240

Pro Leu Arg Phe Ser Arg Glu Asn Ser Glu Lys Ile His Pro Tyr Ala
                245                 250                 255

Phe Ile Pro Phe Ser Ala Gly Leu Arg Asn Cys Ile Gly Gln His Phe
            260                 265                 270

Ala Ile Ile Glu Cys Lys Val Ala Val Ala Leu Thr Leu Leu Arg Phe
        275                 280                 285

Lys Leu Ala Pro Asp His Ser Arg Pro Pro Gln Pro Val Arg Gln Val
    290                 295                 300

Val Leu Lys Ser Lys Asn Gly Ile His Val Phe Ala Lys Lys Val Cys
305                 310                 315                 320


<210> 307
<211> 505
<212> PRT
<213> Homo sapiens

<400> 307
Met Glu Pro Ser Trp Leu Gln Glu Leu Met Ala His Pro Phe Leu Leu
                  5                  10                  15

Leu Ile Leu Leu Cys Met Ser Leu Leu Leu Phe Gln Val Ile Arg Leu
             20                  25                  30

Tyr Gln Arg Arg Arg Trp Met Ile Arg Ala Leu His Leu Phe Pro Ala
         35                  40                  45

Pro Pro Ala His Trp Phe Tyr Gly His Lys Glu Phe Tyr Pro Val Lys
     50                  55                  60

Glu Phe Glu Val Tyr His Lys Leu Met Glu Lys Tyr Pro Cys Ala Val
 65                  70                  75                  80

Pro Leu Trp Val Gly Pro Phe Thr Met Phe Phe Ser Val His Asp Pro
                 85                  90                  95

Asp Tyr Ala Lys Ile Leu Leu Lys Arg Gln Asp Pro Lys Ser Ala Val
            100                 105                 110

Ser His Lys Ile Leu Glu Ser Trp Val Gly Arg Gly Leu Val Thr Leu
        115                 120                 125

Asp Gly Ser Lys Trp Lys Lys His Arg Gln Ile Val Lys Pro Gly Phe
    130                 135                 140
```

```
Asn Ile Ser Ile Leu Lys Ile Phe Ile Thr Met Met Ser Glu Ser Val
145                 150                 155                 160

Arg Met Met Leu Asn Lys Trp Glu Glu Arg Ile Ala Gln Asn Ser Arg
                165                 170                 175

Leu Glu Leu Phe Gln His Val Ser Leu Met Thr Leu Asp Ser Ile Met
            180                 185                 190

Lys Cys Ala Phe Ser His Gln Gly Ser Ile Gln Leu Asp Ser Thr Leu
        195                 200                 205

Asp Ser Tyr Leu Lys Ala Val Phe Asn Leu Ser Lys Ile Ser Asn Gln
    210                 215                 220

Arg Met Asn Asn Phe Leu His His Asn Asp Leu Val Phe Lys Phe Ser
225                 230                 235                 240

Ser Gln Gly Gln Ile Phe Ser Lys Phe Asn Gln Glu Leu His Gln Phe
                245                 250                 255

Thr Glu Lys Val Ile Gln Asp Arg Lys Glu Ser Leu Lys Asp Lys Leu
            260                 265                 270

Lys Gln Asp Thr Thr Gln Lys Arg Arg Trp Asp Phe Leu Asp Ile Leu
        275                 280                 285

Leu Ser Ala Lys Ser Glu Asn Thr Lys Asp Phe Ser Glu Ala Asp Leu
    290                 295                 300

Gln Ala Glu Val Lys Thr Phe Met Phe Ala Gly His Asp Thr Thr Ser
305                 310                 315                 320

Ser Ala Ile Ser Trp Ile Leu Tyr Cys Leu Ala Lys Tyr Pro Glu His
                325                 330                 335

Gln Gln Arg Cys Arg Asp Glu Ile Arg Glu Leu Leu Gly Asp Gly Ser
            340                 345                 350

Ser Ile Thr Trp Glu His Leu Ser Gln Met Pro Tyr Thr Thr Met Cys
        355                 360                 365

Ile Lys Glu Cys Leu Arg Leu Tyr Ala Pro Val Val Asn Ile Ser Arg
    370                 375                 380

Leu Leu Asp Lys Pro Ile Thr Phe Pro Asp Gly Arg Ser Leu Pro Ala
385                 390                 395                 400

Gly Ile Thr Val Phe Ile Asn Ile Trp Ala Leu His His Asn Pro Tyr
                405                 410                 415

Phe Trp Glu Asp Pro Gln Val Phe Asn Pro Leu Arg Phe Ser Arg Glu
            420                 425                 430
```

```
Asn Ser Glu Lys Ile His Pro Tyr Ala Phe Ile Pro Phe Ser Ala Gly
        435                 440                 445

Leu Arg Asn Cys Ile Gly Gln His Phe Ala Ile Ile Glu Cys Lys Val
    450                 455                 460

Ala Val Ala Leu Thr Leu Leu Arg Phe Lys Leu Ala Pro Asp His Ser
465                 470                 475                 480

Arg Pro Pro Gln Pro Val Arg Gln Val Val Leu Lys Ser Lys Asn Gly
                485                 490                 495

Ile His Val Phe Ala Lys Lys Val Cys
            500                 505
```

<210> 308
<211> 23
<212> PRT
<213> Homo sapiens

<400> 308

```
Val Ile Gln Asp Arg Lys Glu Ser Leu Lys Asp Lys Leu Lys Gln Asp
 1               5                  10                  15
Thr Thr Gln Lys Arg Arg Trp
            20
```

<210> 309
<211> 23
<212> PRT
<213> Homo sapiens

<400> 309

```
Gly His Lys Glu Phe Tyr Pro Val Lys Glu Phe Glu Val Tyr His Lys
 1               5                  10                  15
Leu Met Glu Lys Tyr Pro Cys
            20
```

<210> 310
<211> 23
<212> PRT
<213> Homo sapiens

<400> 310

```
Gly Arg Gly Leu Val Thr Leu Asp Gly Ser Lys Trp Lys Lys His Arg
 1               5                  10                  15
Gln Ile Val Lys Pro Gly Phe
            20
```

<210> 311
<211> 24
<212> PRT
<213> Homo sapiens

<400> 311
His Gln Gly Ser Ile Gln Leu Asp Ser Thr Leu Asp Ser Tyr Leu Lys
 1   5   10   15
Ala Val Phe Asn Leu Ser Lys Ile
            20

<210> 312
<211> 1548
<212> DNA
<213> Homo sapiens

<400> 312
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agagccctgc acctgtttcc tgcaccccct gcccactggt tctatggcca caaggagttt 180
tacccagtaa aggagtttga ggtgtatcat aagctgatgg aaaaataccc atgtgctgtt 240
cccttgtggg ttggaccctt tacgatgttc ttcagtgtcc atgacccaga ctatgccaag 300
attctcctga aaagacaaga tcccaaaagt gctgttagcc acaaaatcct tgaatcctgg 360
gttggtcgag gacttgtgac cctggatggt tctaaatgga aaaagcaccg ccagattgtg 420
aaacctggct tcaacatcag cattctgaaa atattcatca ccatgatgtc tgagagtgtt 480
cggatgatgc tgaacaaatg ggaggaacac attgcccaaa actcacgtct ggagctcttt 540
caacatgtct ccctgatgac cctggacagc atcatgaagt gtgccttcag ccaccagggc 600
agcatccagt tggacagtac cctggactca tacctgaaag cagtgttcaa ccttagcaaa 660
atctccaacc agcgcatgaa caattttcta catcacaacg acctggtttt caaattcagc 720
tctcaaggcc aaatcttttc taaatttaac caagaacttc atcagttcac agagaaagta 780
atccaggacc ggaaggagtc tcttaaggat aagctaaaac aagatactac tcagaaaagg 840
cgctgggatt ttctggacat acttttgagt gccaaaagcg aaaacaccaa agatttctct 900
gaagcagatc tccaggctga agtgaaaacg ttcatgtttg caggacatga caccacatcc 960
agtgctatct cctggatcct ttactgcttg gcaaagtacc ctgagcatca gcagagatgc 1020
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cagatgcctt acaccacgat gtgcatcaag gaatgcctcc gcctctacgc accggtagta 1140
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ggaataactg tgtttatcaa tatttgggcc cttcaccaca acccctattt ctgggaagac 1260
cctcaggtct ttaacccctt gagattctcc agggaaaatt ctgaaaaaat acatccctat 1320
gccttcatac cattctcagc tggattaagg aactgcattg ggcagcattt tgccataatt 1380
gagtgtaaag tggcagtggc attaactctg ctccgcttca agctggctcc agaccactca 1440
aggcctcccc agcctgttcg tcaagttgtc ctcaagtcca agaatggaat ccatgtgttt 1500
gcaaaaaaag tttgccatca tcaccatcat catcaccatc accattag 1548

<210> 313
<211> 515
<212> PRT
<213> Homo sapiens

<400> 313
Met Glu Pro Ser Trp Leu Gln Glu Leu Met Ala His Pro Phe Leu Leu
 1   5   10   15
Leu Ile Leu Leu Cys Met Ser Leu Leu Leu Phe Gln Val Ile Arg Leu

```
            20                  25                  30
Tyr Gln Arg Arg Arg Trp Met Ile Arg Ala Leu His Leu Phe Pro Ala
        35                  40                  45
Pro Pro Ala His Trp Phe Tyr Gly His Lys Glu Phe Tyr Pro Val Lys
    50                  55                  60
Glu Phe Glu Val Tyr His Lys Leu Met Glu Lys Tyr Pro Cys Ala Val
65                  70                  75                  80
Pro Leu Trp Val Gly Pro Phe Thr Met Phe Phe Ser Val His Asp Pro
                85                  90                  95
Asp Tyr Ala Lys Ile Leu Leu Lys Arg Gln Asp Pro Lys Ser Ala Val
            100                 105                 110
Ser His Lys Ile Leu Glu Ser Trp Val Gly Arg Gly Leu Val Thr Leu
        115                 120                 125
Asp Gly Ser Lys Trp Lys Lys His Arg Gln Ile Val Lys Pro Gly Phe
    130                 135                 140
Asn Ile Ser Ile Leu Lys Ile Phe Ile Thr Met Met Ser Glu Ser Val
145                 150                 155                 160
Arg Met Met Leu Asn Lys Trp Glu Glu His Ile Ala Gln Asn Ser Arg
                165                 170                 175
Leu Glu Leu Phe Gln His Val Ser Leu Met Thr Leu Asp Ser Ile Met
            180                 185                 190
Lys Cys Ala Phe Ser His Gln Gly Ser Ile Gln Leu Asp Ser Thr Leu
        195                 200                 205
Asp Ser Tyr Leu Lys Ala Val Phe Asn Leu Ser Lys Ile Ser Asn Gln
    210                 215                 220
Arg Met Asn Asn Phe Leu His His Asn Asp Leu Val Phe Lys Phe Ser
225                 230                 235                 240
Ser Gln Gly Gln Ile Phe Ser Lys Phe Asn Gln Glu Leu His Gln Phe
                245                 250                 255
Thr Glu Lys Val Ile Gln Asp Arg Lys Glu Ser Leu Lys Asp Lys Leu
            260                 265                 270
Lys Gln Asp Thr Thr Gln Lys Arg Arg Trp Asp Phe Leu Asp Ile Leu
        275                 280                 285
Leu Ser Ala Lys Ser Glu Asn Thr Lys Asp Phe Ser Glu Ala Asp Leu
    290                 295                 300
Gln Ala Glu Val Lys Thr Phe Met Phe Ala Gly His Asp Thr Thr Ser
305                 310                 315                 320
Ser Ala Ile Ser Trp Ile Leu Tyr Cys Leu Ala Lys Tyr Pro Glu His
                325                 330                 335
Gln Gln Arg Cys Arg Asp Glu Ile Arg Glu Leu Leu Gly Asp Gly Ser
            340                 345                 350
Ser Ile Thr Trp Glu His Leu Ser Gln Met Pro Tyr Thr Thr Met Cys
        355                 360                 365
Ile Lys Glu Cys Leu Arg Leu Tyr Ala Pro Val Val Asn Ile Ser Arg
    370                 375                 380
Leu Leu Asp Lys Pro Ile Thr Phe Pro Asp Gly Arg Ser Leu Pro Ala
385                 390                 395                 400
Gly Ile Thr Val Phe Ile Asn Ile Trp Ala Leu His His Asn Pro Tyr
                405                 410                 415
Phe Trp Glu Asp Pro Gln Val Phe Asn Pro Leu Arg Phe Ser Arg Glu
            420                 425                 430
Asn Ser Glu Lys Ile His Pro Tyr Ala Phe Ile Pro Phe Ser Ala Gly
        435                 440                 445
Leu Arg Asn Cys Ile Gly Gln His Phe Ala Ile Ile Glu Cys Lys Val
```

```
    450                 455                 460
Ala Val Ala Leu Thr Leu Leu Arg Phe Lys Leu Ala Pro Asp His Ser
465                 470                 475                 480
Arg Pro Pro Gln Pro Val Arg Gln Val Val Leu Lys Ser Lys Asn Gly
                485                 490                 495
Ile His Val Phe Ala Lys Lys Val Cys His His His His His His His
            500                 505                 510
His His His
        515
```